



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX  
75 Hawthorne Street  
San Francisco, CA 94105

September 27, 2001

MEMORANDUM

**SUBJECT:** Five-Year Review for the Motorola 52<sup>nd</sup> Street Superfund Site, Phoenix, AZ

**FROM:** Nadia Hollan, Remedial Project Manger

**THROUGH:** Sean Hogan, Chief  
Private Sites/DOE Section

Chief, Federal Facilities  
and Site Cleanup Branch

**TO:** Keith Takata, Director  
Superfund Division

Attached, please find a copy of the second Five-Year Review for the Motorola 52<sup>nd</sup> Street Superfund Site, Operable Unit One (OU 1) prepared by the Arizona Department of Environmental Quality (ADEQ) with support from Harding ESE. Due to the fact that hazardous substances, pollutants, and contaminants remain at the site at levels that preclude unlimited land use, this Five-Year review for the Site is required by CERCLA (Section 121 ( c ) ) and by Section 300.430 (f) (4) (ii) of the NCP. The triggering action for this review was the signature of the first Five-Year Review Report on November 16, 1995. EPA has reviewed ADEQ's Five-Year Review for OU 1 and adopts their recommendations. EPA has concurrently completed a Five-Year Review of Operable Unit Two, which is also attached for your approval.

By signature below, I concur with the conclusions and recommendations of this Five-Year Review.

Approved by: Keith Takata  
Keith Takata, Director  
Superfund Division

Date: 9-28-01

Attachments: Second Five-Year Review Report the Motorola 52<sup>nd</sup> Street Superfund Site, OU1  
First Five-Year Review Report for the Motorola 52<sup>nd</sup> Street Superfund Site, OU2

# **SECOND FIVE-YEAR REVIEW REPORT**

## **OPERABLE UNIT NO. 1**

**Motorola 52<sup>nd</sup> Street Superfund Site  
Phoenix, Arizona**

**September 27, 2001**



**PREPARED BY:**

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**&**

**Arizona Department of Environmental Quality  
3033 North Central Avenue  
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**(Project No. 660027.0600)**

**Harding ESE**

# **SECOND FIVE-YEAR REVIEW REPORT**

**FOR OPERABLE UNIT NO. 1  
MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE  
PHOENIX, ARIZONA**

**PREPARED BY**

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**SEPTEMBER 27, 2001**

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**REPORT PREPARATION, CERTIFICATIONS, & APPROVALS**

**Report Title:** Second Five-Year Review Report for Operable Unit 1 of the Motorola 52<sup>nd</sup> Street Superfund Site, Phoenix, Arizona

**Report Date:** September 27, 2001

**Prepared by:** Harding ESE and Arizona Department of Environmental Quality



John Kim, ASRAC Project Manager  
Harding ESE

10/4/01

Date

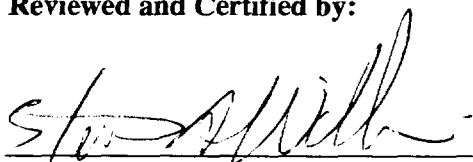


Kristina Kommalan, Remedial Project Manager  
Arizona Department of Environmental Quality

10/5/01

Date

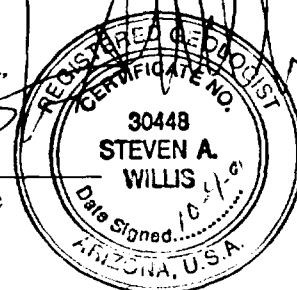
**Reviewed and Certified by:**



Steve Willis, Harding ESE  
Arizona Registered Geologist

10-4-01

Date



The Arizona Department of Environmental Quality, the lead agency for the Motorola 52<sup>nd</sup> Street Superfund Site, attest, by signature below, their approval of the findings, conclusions and recommendations of this five-year review.



Philip McNeely, Manager  
Superfund Programs Section  
Arizona Department of Environmental Quality

10-5-01

Date

### LIST OF ACRONYMS

|         |   |
|---------|---|
| AAC     | Arizona Administrative Code   |
| ADEQ    | Arizona Department of Environmental Quality                         |
| ADHS    | Arizona Department of Health Services                               |
| ADWR    | Arizona Department of Water Resources                               |
| AS      | Air Stripper  |
| ASRAC   | Arizona Superfund Response Action Contract                          |
| AS/SVE  | Air Sparging with Soil Vapor Extraction                             |
| ATP     | Acid Treatment Plant  |
| AWQs    | Aquifer Water Quality Standards                                     |
| ARARs   | Applicable or Relevant and Appropriate Requirements                 |
| ARS     | Arizona Revised Statute   |
| bgs     | Below Ground Surface  |
| CAA     | Clean Air Act   |
| CERCLA  | Comprehensive Environmental Response, Compensation, & Liability Act |
| CFR     | Code of Federal Regulations   |
| CO      | Consent Order   |
| COCs    | Constituents of Concern   |
| COP     | City of Phoenix   |
| COS     | City of Scottsdale  |
| CWA     | Clean Water Act   |
| CYSVE   | Courtyard SVE   |
| DCE     | Dichloroethene  |
| DNAPL   | Dense Non-Aqueous Phased Liquid                                     |
| EPA     | Environmental Protection Agency                                     |
| HESE    | Harding ESE   |
| GAC     | Granular Activated Carbon   |
| GPLs    | Groundwater Protection Levels                                       |
| gpm     | Gallons Per Minute  |
| HA      | Health Assessment   |
| HASP    | Health and Safety Plan  |
| HBGLs   | Health Based Guidance Levels  |
| IGWTP   | Integrated Groundwater Treatment Plant                              |
| LOD     | Letter of Determination   |
| MCAP    | Maricopa County Air Pollution                                       |
| MCESD   | Maricopa County Environmental Service Department                    |
| MCLs    | Maximum Contaminant Levels  |
| mg/kg   | Miligrams per Kilogram  |
| NCP     | National Oil and Hazardous Substances Pollution Contingency Plan    |
| NFA     | No Further Action   |
| NOx     | Nitrogen Oxides   |
| NPL     | National Priorities List  |
| NR SRLs | Non-Residential Soil Remediation Levels                             |
| O&M     | Operation and Maintenance   |
| OSWER   | Office of Solid Waste and Emergency Response                        |
| OUs     | Operable Units  |
| PCE     | Tetrachloroethene   |
| ppmv    | Parts Per Million by Volume   |
| PRGs    | Preliminary Remediation Goals                                       |
| PM10    | Particulates < 10 Microns   |
| POTW    | Publicly Owned Treatment Works                                      |

**LIST OF ACRONYMS (Continued)**

|        |  |
|--------|--|
| ppb    | Parts Per Billion                          |
| PQGWWP | Poor Quality Groundwater Withdrawal Permit |
| PTP    | Pilot Treatment Plant                      |
| PRPs   | Potentially Responsible Parties            |
| RAP    | Remedial Action Plan                       |
| RCRA   | Resource Conservation and Recovery Act     |
| RI/FS  | Remedial Investigation/Feasibility Study   |
| ROs    | Remedial Objectives                        |
| ROD    | Record of Decision                         |
| SOx    | Sulfur Oxides                              |
| SRP    | Salt River Project                         |
| SVE    | Soil Vapor Extraction                      |
| SWPL   | Southwest Parking Lot                      |
| TAG    | Technical Assistance Grant                 |
| TASOW  | Task Assignment Scope of Work              |
| TBC    | To be Considered                           |
| TC     | Toxicity Characteristics                   |
| TCA    | Trichloroethane                            |
| TCE    | Trichloroethene                            |
| TSP    | Total Suspended Particulates               |
| TTOs   | Total Toxic Organics                       |
| µg/L   | Micrograms Per Liter                       |
| USEPA  | U.S. Environmental Protection Agency       |
| UST    | Underground Storage Tank                   |
| VC     | Vinyl Chloride                             |
| VOCs   | Volatile Organic Compounds                 |

## FIVE-YEAR REVIEW SUMMARY FORM

**Site Name:** Motorola 52nd Street

**EPA ID:**

**Region:** 9

**State:** Arizona

**City/County:** Phoenix/Maricopa

**NPL Status:** ☒ Final ☐ Deleted ☐ Other (specify) \_\_\_\_\_

**Remediation Status:** (choose all that apply): ☐ Under Construction ☒ Operating ☐ Complete

**Multiple OUs?** ☒ Yes ☐ No **Construction Completion Date:** Jul-92

**Has site been put into reuse?** ☐ Yes ☒ No

**Reviewing Agency:** ☐ EPA ☒ State ☐ Tribe ☐ Other \_\_\_\_\_

**Author Name:** John S. Kim c/o Harding ESE, Inc.

**Author Title:** Chief Engineer

**Author Affiliation:** ADEQ Consultant

**Review Period:** September 1995 to December 2000

**Date(s) of Site Inspection:** March 20, 2001

**Type of Review:** ☒ Statutory  
☐ Policy ☐ Post-SARA ☐ Pre-SARA ☐ NPL-Removal Only  
☐ Non-NPL Remedial Action Site ☐ NPL State/Tribe-Lead  
☐ Regional Discretion

**Review Number:** ☐ First ☒ Second ☐ Third ☐ Other \_\_\_\_\_

**Triggering Action:**

☐ Actual RA Onsite Construction at OU ☐ Actual RA Start at OU  
☐ Construction Completion ☒ Previous Five-Year Review Report  
☐ Other (Specify) \_\_\_\_\_

**Triggering Action Date:** September 5, 1995

**Due Date (five years after triggering action date):** September 5, 2000

## FIVE-YEAR REVIEW SUMMARY FORM

### Groundwater Issues

#### 1. The Source Area

It is ADEQ's opinion that the pump and treat system is not significantly effective in reducing the levels of contaminants due to the DNAPL in fractured bedrock. ADEQ is concerned that high concentrations of TCE will continue in the source area wells for a long time.

Source area well MP-03 has not been sampled since December 9, 1997.

#### 2. The Area Immediately Downgradient of the Courtyard

ADEQ is concerned that the strong downward vertical gradient at DM606 may indicate that deep bedrock capture in that area is inadequate. A slight increasing TCE concentration trend in the 330 ft. port of this well increases this concern.

#### 3. The Old Cross Cut Canal Extraction Wells

Increasing TCE trends are observed in wells DM306, DM305, DM307, DM 312, and DM313 (See Section 3.2.11). ADEQ will continue to monitor the TCE trends in these wells.

Extraction well DM313 currently exceeds the MCL for TCE. This well must be put back into operation. In addition, should future increasing TCE trends be observed in extraction well DM312 that exceeds the MCL, this well must also be put back into operation.

DM306 was set to run in cyclic mode, 30-minutes on and 1-hour off. Operation of this well in cyclic mode indicates that the extraction system may need to be modified to address capture of contaminants within the bedrock (See "Opportunities for Optimization" Section).

#### 4. The Area Downgradient of the Old Cross Cut Canal, but Within the Zone of Capture

TCE concentrations are increasing in the shallow bedrock ports (170 ft.) of DM603 and DM605. This may be the result of TCE contaminant migration from deeper bedrock fractures.

#### 5. The Area Downgradient of the Zone of Capture

There are no wells immediately downgradient and outside the capture zone that can be used to confirm that the plume is contained. ADEQ is concerned, particularly since the alluvium is becoming dewatered, that downgradient monitoring in the bedrock is limited.

#### 6. The Northern Edge of the Plume Between the Source Area and the Zone of Capture

The increasing TCE trend found in wells EW18 (alluvium/bedrock) and DM125 (125 ft. bedrock port) indicated that the migration of TCE may not be contained in the northern boundary of the plume. The concentrations of TCE found in these northern wells also indicated that TCE is not completely defined to the north.

#### 7. An Assessment of Vinyl Chloride Within OU1

Groundwater data indicated that VC is detected more frequently and at higher concentrations exceeding MCLs in some of the wells associated with OU1.

#### 8. Bedrock Capture

While dewatering of the alluvium indicates the success of the alluvial extraction system and alluvial capture, it changes the dynamics of the OU-1 extraction and treatment system:

- a. As water levels decline and the alluvium is dewatered, the total extraction rate will be reduced. Both extraction and treatment system design changes will be necessary to handle the reduced flow.
- b. ADEQ is concerned that as the alluvial aquifer is dewatered, the effectiveness of bedrock capture may be reduced. Motorola submitted an analysis of capture in bedrock in the 1994 Effectiveness Report (see Appendix E Interpretation and Use of hydraulic Head Data for Definition of the Capture Zone). According to the model, "pressure changes associated with a significant draw down in the alluvium are transmitted to great depth in the bedrock". This concept depends on pressure changes in the alluvium to induce capture in bedrock. This concept was demonstrated by the results of a three-dimensional numeric model discussed in the Appendix. If the alluvium is dewatered how can pressure changes be transmitted to bedrock fractures not connected to the extraction wells?

### Soil Issues

9. The CO required that an SVE system be installed at the ATP. The site inspection and document review confirmed that no SVE system was installed in the ATP.

10. The SVE system within the Courtyard area was not operated in a cyclic mode prior to shut down. In addition, no confirmatory soil sampling was performed.

11. No confirmatory soil sampling was performed after the shut down of the SVE system within the SWPL area.

## FIVE-YEAR REVIEW SUMMARY FORM

### Health Assessment Issues

12. A Site Review and Update for the 52nd Street Site has not been conducted by ADHS since 1996.
13. The Baseline Risk Assessment and the Health Assessments recommended to increase the frequency of monitoring Mr. Morgan's well. The well has not been sampled in years, however, this may be due to access issues.
14. Property owners have the right to install an "exempt" well for any type of use which cannot be restricted by ADWR. The potential future use of "exempt" wells by individual property owners has never been evaluated for OU1. An institutional control may need to be considered.
15. ADHS identified a private well (Willis) in the 1992 Baseline Risk Assessment that is located within OU1. However, no information regarding the well is provided except that it is "closed".
16. The Turnage well that was locked in 1986 to prevent its use and access is controlled by Motorola. This well is not monitored to ensure the integrity of the lock and the well. Additionally, it is unclear as to the status of ownership of the well.
17. The ADHS Soil Gas Sampling Risk Assessment (March 1992) concluded that concentrations of 1,1-DCE are high enough to suggest that further study of potential indoor exposures may be warranted, including collecting air samples from residences. This issue is not addressed in the ADHS Baseline Risk Assessment (November 1992) or in subsequent ATSDR Health Assessments.

### Operation and Maintenance Issues

18. Inspection of the IGWTP revealed that the secondary containment system's protective coating was cracking, peeling, and/or lifting up.
19. The PVC valve at the Liquid Chlorine Feed system looked brittle.
20. The pressure gauge on Air Stripper AS-201 was not functioning.
21. Well vault MP-11 was full of water.

### Noted Concerns

1. The treated effluent monitoring plan was not available on-site.
2. The PQGWWP was not available on-site.
3. The IGWTP effluent data and air emissions data were not available on-site.
4. The perimeter fencing around the IGWTP did not completely surround the system, and locks were not provided on the access gates.
5. Perimeter signs that warns of unauthorized entry were of insufficient number to cover the entire perimeter of the IGWTP.
6. Review of the SWPL RI report indicates that a typo was made in Tables F.4 and F.5 regarding the unit; "ug/mg" should actually be "mg/kg".
7. The 1992 Baseline Risk Assessment may be outdated based on current site conditions for consideration in the final remedy.

### Groundwater Issues Follow-up Actions

#### 1. The Source Area

ADEQ anticipates that the source area extraction system will approach the limits of effective mass reduction in the source area in the near future. ADEQ believes it would be prudent to begin evaluation of alternative treatment technologies for DNAPL in fractured bedrock. If the source area were effectively reduced, it may greatly reduce the long term operation and monitoring of the current pump and treat system.

Source area well MP-03 should be added to the monitoring plan and sampled annually.

#### 2. The Area Immediately Downgradient of the Courtyard

An analysis and explanation of the DM606 hydraulic and water quality data should be provided.

#### 3. The Old Cross Cut Canal Extraction Wells

TCE trends in wells DM306, DM305, DM307, DM312, and DM313 should be closely monitored and discussed in future Effectiveness Reports.

Extraction well DM313 should be put back into operation.

If increasing TCE trends are observed in extraction well DM312 (exceeding the MCL), this well should also be put back into operation.

Operation of extraction wells (e.g., DM306) in cyclic mode indicates that the system may be entering a new phase of operation. A plan that addresses current and future extraction well rate changes and their affect on the OU1 system and bedrock capture should be developed and submitted (see (8) below).

## FIVE-YEAR REVIEW SUMMARY FORM

### Groundwater Issues Follow-up Actions (Continued)

#### 4. The Area Downgradient of the Old Cross Cut Canal, but Within the Zone of Capture

An analysis and explanation of the increasing TCE concentrations in the shallow bedrock parts of DM603 and DM605 should be provided.

#### 5. The Area Downgradient of the Zone of Capture

A plan should be provided that includes an analysis and evaluation of the current downgradient monitoring well network.

A plan to ensure adequate future downgradient monitoring with the addition of new groundwater monitoring wells, if determined necessary (see (8) below) should be submitted. The plan should also address the potential changes in bedrock extraction as water levels continue to decline.

#### 6. The Northern Edge of the Plume Between the Source Area and the Zone of Capture

An analysis and explanation of the TCE concentrations in wells EW18 and DM125 should be provided.

Groundwater monitor well DM26 should be added to the current OU1 network and monitored annually.

#### 7. An Assessment of Vinyl Chloride Within OU1

VC should be closely monitored and discussed in future Effectiveness Reports. VC should be added to the OU1 COCs.

#### 8. Bedrock Capture

A plan should be provided that addresses the following:

- An updated conceptual site model (CSM) that incorporates dewatering of the alluvium. The CSM should address effectiveness of bedrock capture as the alluvium is dewatered. It may be useful to update the 1994 numeric model to aid in the analysis of the system.
- Any OU1 design changes necessary to maintain capture, especially in bedrock.
- Any OU1 monitoring well network changes necessary to assess the performance of the system as conditions change.

### Soil Issues Follow-up Actions

9. Motorola should provide documentation as to why an SVE system was not installed or required at the ATP.

10. The SVE system within the Courtyard should be operated in a cyclic mode. Cyclic operation entails turning the system on and off for short periods of time to allow equilibration of the subsurface vapors and flow pathways in an effort to remove the remaining low concentrations of VOCs. Cyclic operation will entail two weeks of system operation, followed by two weeks off for flow pathway equilibrium. Each time the SVE system is restarted, a vapor sample should be collected and analyzed. Once two consecutive vapor samples are near or below the laboratory reporting limits, after surging has begun, Motorola should collect confirmatory soil boring samples. Prior to conducting any work, Motorola should submit a work plan to ADEQ.

11. Confirmatory soil samples should be collected in the areas impacted by the SVE system at the SWPL area. Prior to conducting any work, Motorola should submit a work plan to ADEQ.

### Health Assessment Issues Follow-up Actions

12. ATSDR has plans to conduct a Site Review and Update for the 52nd Street Superfund Site.

13. Motorola should develop a plan to notice Mr. Morgan (or current owner), gain access to the well, sample on a periodic basis, provide analytical results to Mr. Morgan (or current owner), and take other actions, if necessary.

14. ATSDR is currently assessing the well surveys that have been conducted at the Motorola 52nd Street Site. A well use survey should also be conducted within the Site. If the results of the survey confirms future use of "exempt" wells by property owners, institutional controls should be considered.

15. ATSDR should investigate the status of the Willis well during their next Site Review and Update.

16. Motorola should conduct semiannual inspections of the Turnage well to ensure that the well has not been tampered with. Additionally, the owner of the well must be identified and Motorola should consider transferring ownership since they are responsible for ensuring no one has access to the well. If the Turnage well has no use to the 52nd Street Site, Motorola should consider abandoning the well.

17. ADHS should determine if 1,1-DCE, and any other VOCs, are still a concern for indoor air exposure.

### Operations and Maintenance Issues Follow-up Actions

18. The IGWTP secondary containment system's protective coating should be repaired to fix all areas that were cracking, peeling, and/or lifting up.

19. The PVC valve at the Liquid Chlorine Feed system should be replaced.

## FIVE-YEAR REVIEW SUMMARY FORM

### Operations and Maintenance Issues Follow-up Actions (Continued)

20. The non-functioning pressure gauge on Air Stripper AS-201 should be replaced.
21. Water that has accumulated in well vault MP-11 should be removed. Motorola should ensure that O&M of the well vaults are maintained to prevent any potential problems due to rainfall/runoff.

### Noted Concerns Recommendations

1. The treated effluent monitoring plan should be made available on-site for future inspections.
2. The PQGWWP should be available on-site for future inspections.
3. The IGWTP effluent data and air emissions data should be available on-site for future inspections.
4. Because Motorola does not own the entire facility, it is highly recommended that the perimeter fencing be fully extended around the IGWTP. In addition, all access gates to the system should be kept locked when unattended by authorized OU1 Maintenance personnel.
5. Perimeter signs that warns of unauthorized entry should be placed around all sides of the perimeter fence around the IGWTP.
6. The SWPL RI report should be amended to correct the "unit" typos in Tables F.4 and F.5, and the revised sections resubmitted to ADEQ.
7. Because decrease in contaminant concentrations may have occurred, which ultimately reduces risk, it is recommended that the 1992 baseline risk assessment be updated to reassess these new site conditions, prior to the selection of the final remedy. Reduction in risk would play an important role in the nature and type of the final remedy that is selected.

A protectiveness determination of the OU1 interim remedy at the Motorola 52nd Street Superfund Site cannot be made at this time until further information is obtained. Further information will be obtained by taking the following actions:

- (1) Collect additional information and data to evaluate the hydraulic and water quality of well DM606;
- (2) Extraction well DM313 should be placed in operation since TCE concentrations have increased above the MCL;
- (3) A plan should be developed that addresses current and future extraction well rate changes and their affect on the OU1 system and bedrock capture;
- (4) Collect additional information and data to evaluate the increasing TCE concentrations in the shallow bedrock ports of wells DM603 and DM605;
- (5) Collect additional information and data to evaluate the concentrations of TCE in wells EW18, DM125;
- (6) A plan should be developed to address the concern that as the alluvial aquifer is dewatered the capture of contamination in bedrock may be reduced. This will entail updating the Conceptual Site Model, conducting any design changes that may be necessary to maintain capture, any monitoring well network changes necessary to assess the performance of the system as conditions change, and may also require updating the 1994 numeric model;
- (7) A plan should be developed to assess the status of the Morgan well and to ensure that the current owner is not adversely impacted by VOC contamination.

Within six months from the date of this report, ADEQ will reevaluate OU1 to determine if all corrective actions have been completed. ADEQ will then issue a supplemental report on the findings, which will also include a protectiveness statement.

## 1.0 INTRODUCTION

The purpose of this five year review is to determine whether the Operable Unit 1 (OU1), an interim remedial action implemented in July 1992, at the Motorola 52<sup>nd</sup> Street Site (52<sup>nd</sup> Street Site) in Phoenix, Arizona continues to meet remedial objectives and is protective of human health and the environment. The methods, findings, and conclusions, including issues and recommendations, are documented in this report.

As the lead agency, Arizona Department of Environmental Quality (ADEQ) is responsible for conducting this second five year review. In accordance with the Arizona Superfund Response Action Contract (ASRAC) #99-0017; Work Assignment # 00-0200, ADEQ awarded a contract to Harding ESE (HESE) to conduct the second five-year review and to prepare the report. This review covers the performance period of OU1 from September 1995 through December 2000.

ADEQ must conduct five-year reviews consistent with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The triggering action for this review was the completion of the first five-year review on September 5, 1995. Due to the fact that hazardous substances, pollutants, and contaminants remain at the site above levels that will not allow for unlimited use or unrestricted exposure, this five-year review is required by statute.

## **2.0 SITE CHRONOLOGY OF OU1**

The chronology of OU1 relative to the entire Superfund process is provided in Table 1. The site chronology is presented from the initial discovery of the problem, through the Remedial Investigation/Feasibility Study (RI/FS), the Remedial Action Plan (RAP), and the Record of Decision (ROD) phases, up to the implementation of this review. A summary of the site history of OU1 is presented in Section 3.2.

### **3.0 BACKGROUND INFORMATION**

#### **3.1 SITE LOCATION INFORMATION**

The Motorola property is situated on the southwest corner of the intersection of 52<sup>nd</sup> Street and McDowell Road which is located in a residential and commercial area in the eastern part of Phoenix, Arizona. OU1 is defined by the contaminant plume to the north (Palm Lane) and south (Roosevelt Street) and by the zone of hydraulic capture to the west (46<sup>th</sup> Street). The USGS 7.5 Minute, Tempe, Arizona Quadrangle map shows the site to be located in the East ½ of the Northwest ¼ of Section 5 of Township 1 North and Range 4 East (Figure 1). The property occupies approximately 90 acres and contains more than 20 buildings on-site. Major geographic features include: the Papago Buttes about one mile east of the property, the Salt River one mile south of the property, the Old Crosscut Canal located along 46<sup>th</sup> Street, and the Grand Canal located through the area west of 40<sup>th</sup> Street and Van Buren Street. The Phoenix Sky Harbor Airport is located approximately 1 ½ miles southwest of the property. Figure 2 is a site plan of the property which shows the locations and names of the primary buildings and features. The areas designated as the "Courtyard," "Acid Treatment Plant (ATP)," and "Southwest Parking Lot (SWPL)" have been shaded in Figure 2 since they are referred to frequently in this report.

#### **3.2 SITE HISTORY INFORMATION OF OU1**

The following paragraphs provide a summary of the site activities associated with OU1 at the 52<sup>nd</sup> Street Site. The majority of the site information was obtained from the review of key documents associated with OU1. Appendix A provides a list of documents reviewed. Table 1 provides a brief summary of the chronological history.

##### **3.2.1 Site Discovery**

The Motorola 52<sup>nd</sup> Street facility commenced manufacturing operations in 1956. From 1974 to 1976, the SWPL area was used for waste chemical storage as part of the process waste management operations. In November of 1982, Motorola discovered a discrepancy in the inventory for 1,1,1-trichloroethane (TCA) in a 5,000 gallon underground storage tank (UST) located near the "F" building (Figure 2). The UST was tested and determined to be leaking. The Arizona Department of Health Services (ADHS), was notified and a preliminary investigation of soil and groundwater contamination was initiated. Motorola discontinued the use of the tank and began to order solvents in 55-gallon drums.

### **3.2.2 Preliminary Investigation**

In December 1983, a preliminary investigation report entitled "Preliminary Report – Chemical Leak Project," was submitted to ADEQ that verified vadose zone contamination sources at the site and a groundwater contamination plume migrating west of the facility. As part of the preliminary investigation, on-site and off-site monitoring wells were installed and sampled from February 1983 through November 1983. At many of these locations, multiple completion wells (or Westbay Wells) were installed to allow sampling at different depths. In addition, private wells downgradient from the site were also surveyed and sampled.

The Preliminary Investigation report identified twenty five combined possible sources of contamination in the Courtyard, ATP, and SWPL areas. These sources included surface discharges, spills, tank and pipe leaks, and discharges to leach fields and dry wells. The principle source of contamination was determined to be the leaking TCA UST and a former dry well, both located in the Courtyard. This dry well was used for solvent disposal from 1963-1974 (prior to environmental regulations) and was abandoned in 1983. It was originally estimated that approximately 93,000 gallons of trichloroethene (TCE) was disposed to the dry well. However, the report concluded that the estimate was assumed to be inaccurate because the investigation could only account for a small portion of the 93,000 gallons of TCE. The report further concluded that no direct or indirect evidence was available to indicate more than 5,000 to 6,000 gallons of TCE were released and no evidence of large quantities near the source areas had been discovered. The results of sampling on-site and off-site monitoring wells and private wells showed that Volatile Organic Compounds (VOCs) were present at significant levels in the groundwater. The report identified the following chemicals of concern (COCs): TCE, TCA, tetrachloroethene (PCE), 1,1-dichloroethene (1,1-DCE), trans 1,2-dichloroethene (trans 1,2- DCE), and 1,2-dichloroethene (1,2-DCE).

### **3.2.3 Remedial Investigation/Feasibility Study**

As a result of the preliminary investigation, an RI/FS was initiated and a task force was formed to monitor the progress of the RI/FS that included representatives of: the U.S. Environmental Protection Agency (EPA), ADHS, the City of Phoenix (COP), the City of Scottsdale (COS), the Salt River Project (SRP), and Motorola. In addition, a Technical Subcommittee was also organized to provide review and guidance for the implementation of the RI/FS. This subcommittee included representatives of: ADHS, Arizona Department of Water Resources (ADWR), EPA, SRP, Motorola, and Dames & Moore (Motorola's Consultant).

The RI/FS was conducted from October 1984 to January 1987. The purpose of the RI was to characterize potential sources of contamination, evaluate the physical environment in which contamination occurred, and identify potential pathways of exposure. The purpose of the FS was to evaluate different remedial alternatives that would address the on-site contaminated soil and the on-site and off-site contaminated groundwater. During the implementation of the RI/FS, several interim, or topical, draft reports were generated. Many of these reports included preliminary results from a particular aspect of the investigation. Other documents submitted included task specifications which described how a particular phase of the investigation would be completed.

The major RI activities performed during the period from October 1984 to January 1987 were as follows:

- Part of the RI activities involved installation of monitoring wells to further characterize horizontal and vertical hydrogeologic and water quality conditions on and off-site. Well installation activities commenced in November 1984 and continued through August 1986. The locations of these wells are shown in Figure 3. The deep wells were installed to define the vertical groundwater gradients and provide additional water quality information at downgradient locations.
- In November 1984 and February/March 1985 initial soil-gas investigations were conducted at the Site.
- Source verification investigations (Stage 1) were performed from October 1985 to February 1986. The distribution of the 18 sources were comprised of 3 sources in the SWPL area, 3 sources in the ATP area, and 12 sources in the Courtyard area.
- In September and October 1986, a well survey was conducted to identify existing monitoring wells, public supply wells, and private wells in an area downgradient from the Site. The area surveyed was bounded by Oak Street to the north, Washington Street to the south, 52<sup>nd</sup> Street to the east, and 24<sup>th</sup> Street to the west.

The chronology of the major FS activities performed during the period of October 1984 to January 1987 are as follows:

- During May 1986, Motorola voluntarily initiated an on-site groundwater treatment program. Two groundwater extraction wells, DM301 and DM302, were installed in the Courtyard area (Figure 4) to supply contaminated groundwater to the Pilot Treatment Plant (PTP). DM301 was drilled next to existing well MP3, a well which exhibited the highest concentrations of

TCE, TCA, and other VOCs. Well DM302 was also installed in the Courtyard near the probable major source (i.e., Source 2 - Drywell) of the VOC contamination.

- On August 8, 1986, the results of the preliminary screening of remedial action technologies and/or alternatives was submitted to ADEQ as a draft report. The preliminary screening process identified five technologies to be screened for detailed evaluation. These technologies included: (1) groundwater extraction and barriers; (2) water and soil treatment; (3) in situ processes; (4) waste containment and removal; and (5) water supply and drainage control. The preliminary screening of technologies was separated into "on-site source control" and "off-site management of migration". The following four alternatives (3 on-site and 1 off-site) were advanced to the detailed final alternatives evaluation:
  - On-site Source Control Alternatives: groundwater extraction in the alluvium and treatment; groundwater extraction in bedrock and treatment; and in situ soil aeration; and
  - Off-site Management of Migration: groundwater extraction from the alluvium and treatment.

Other FS activities performed after the screening process included: a detailed cost estimate of the design and installation of each alternative; conduct a risk assessment to evaluate exposure pathways and to collect toxicological data on contaminants; a detailed capital and operations and maintenance cost estimate; and model simulations of remedial alternatives.

- On September 4, 1986, a work plan to implement the groundwater PTP was issued.
- The PTP was operated from September 15, 1986 until the time the integrated groundwater treatment plant (IGWTP) was put online (See Section 3.2.6 and 3.2.8).

### **3.2.4 Remedial Investigation Report**

In June 1987, the results of the RI performed at OU1 were presented in a draft report and issued for public review and comment. The purpose of the RI report is to summarize the results of source characterization and site investigation. The following conclusions reached in the RI report were based on previous data collected during the preliminary investigation, field data collected during the RI activity, and groundwater flow and transport modeling that was performed during the RI.

- The results of the source verification investigation showed contaminant concentrations at six principal source locations (Sources 2, 7, 18, 22, 23, and 25; Figure 5). At these six locations, organic contaminants were found in both soil and groundwater. Four of the sources (2, 7, 23, and 25) are in the Courtyard, one (22) is at the ATP, and one (18) is in the

SWPL area. Source 2 (the dry well) had the highest concentration of VOCs in soil and groundwater. The high levels of VOC concentrations in the saturated and unsaturated zones at the dry well and Source 18 (the TCA UST) indicated the presence of dense non-aqueous phased liquid (DNAPL, e.g. TCE in its pure form).

- Results of the geological studies from the RI, and more recent investigations, identified two distinct geological units. These include: (1) the unconsolidated alluvium, composed of loose sediment (i.e. sand, clay, silt, cobbles and boulders) and (2) the bedrock, consisting of Precambrian Metarhyolite and granite as well as Tertiary volcanics and indurated sediments. It has been demonstrated that groundwater and contaminants move between the alluvium and the bedrock. The shallow alluvium is unsaturated, and therefore, groundwater occurs only in the deeper alluvium, identified as basin fill. The alluvium varies in thickness from less than 20 feet at the facility to over 150 feet at 40<sup>th</sup> Street. The alluvium generally becomes thicker to the west.
- Groundwater beneath the facility lies at depths ranging from 20 to 25 feet below ground surface (bgs). Groundwater depths off-site ranged from 20 to 50 feet bgs. The saturated thickness of the alluvium varies from less than 10 feet at the facility to more than 100 feet off-site. The hydraulic characteristics of the alluvium and bedrock indicate that the hydraulic properties of these units vary, with the greatest change at the contact between the alluvium and bedrock. In the alluvium, hydraulic conductivity varies from about 2 feet per day (ft/day) to more than 60 (ft/day). The thickest alluvium has the highest hydraulic conductivity. The alluvial hydraulic conductivity in the vertical direction is believed to be about one-tenth as large as the hydraulic conductivity in the horizontal direction.
- Bedrock underlying the basin fill has undergone several deformational events resulting in faulting, fracturing, rotation, and vertical and horizontal displacement. Two dominant fracture, fault, and lineament trends may be observed: a northwest-southeast trend and a northeast-southwest trend. Hydraulic conductivity in the bedrock is strongly influenced by the presence and frequency of fractures. Measurements of hydraulic conductivity in bedrock vary from 0.001 to 2 ft/day. The alignment of an apparent erosional channel in the Courtyard parallels a probable bedrock fault.
- Soil, groundwater, and bedrock contamination has been documented on-site. TCE is the major VOC contaminant. TCA contamination is more recent and is not as extensive as TCE contamination. Groundwater contamination extends to the west and then west-southwest of the plant and consists primarily of VOCs. The DNAPL exists within the fractures of the

bedrock as a free-phase DNAPL and is of relatively small volume. Since the DNAPL undergoes only limited degradation, it persists for long periods of time while slowly dissolving into the groundwater. The DNAPL is essentially immobile and recovery using pumping wells is extremely slow.

- A groundwater flow and contaminant transport model was used to predict existing and potential contaminant migration. These results were sufficient to allow the examination of remedial action alternatives in the FS Report. The nature and extent of contamination was defined and sufficient data existed to evaluate the relative benefits of the cleanup to protect public health, welfare and the environment.

### **3.2.5 Feasibility Study Report**

In June 1987, the results of the FS performed at OU1 were presented in a draft report and released for public review and comment. The purpose of the Feasibility Study was to: (1) establish remedial objectives (or cleanup goals); (2) identify alternative remedial approaches; and (3) to evaluate those remedial alternatives.

The OU1 remedial objectives that were identified in the FS were: (1) to protect human health and the environment; (2) reduce contamination levels in groundwater; (3) provide containment of contaminated groundwater at the Old Cross Cut Canal; (4) expedite recovery of contaminated groundwater; (5) assure beneficial use of contaminated groundwater that is extracted and treated; and (6) incorporate permanent solutions and innovative technologies in the cleanup process to the extent possible.

The FS report presented the following eight remedial action alternatives: (A) Groundwater Recovery from Alluvium – Courtyard; (B) Groundwater Recovery from Alluvium and Bedrock – Courtyard; (C) Groundwater Migration Control – Courtyard and Old Crosscut Canal (D) Groundwater Migration Control – Courtyard and Downgradient in the Alluvium; (E) Downgradient Alluvial Pumping plus Alluvial and Bedrock Pumping On-Site; (F) Source Removal/Containment; (G) Extensive Downgradient Pumping of Alluvium; and (H) Extensive Downgradient Pumping of Alluvium plus Recovery from Bedrock between 50<sup>th</sup> Street and the Old Crosscut Canal.

During the evaluation, each alternative was reviewed with the following criteria: (1) implementability; (2) cost; (3) technical feasibility; (4) time to accomplish the cleanup; (5)

protective of human health and the environment; (6) satisfy applicable or relevant and appropriate requirements (ARARs) and/or remedial objectives; and (7) environmental impacts.

The result of this evaluation identified Plan C as the most feasible alternative that addressed all of the evaluation criteria. Plan C had the following advantages over the other alternatives evaluated in the study:

- Effectively reduces the area with VOC contamination in excess of health-based criteria within 10 years of operation;
- Provides a hydraulic barrier against further migration of VOC contamination from the area east of the Old Crosscut Canal;
- Provides containment of inorganic contamination west of the SWPL area;
- Is cost-effective relative to plans with more extensive pumping areas;
- Is essentially equal in present worth and unit removal costs with Plan B, while reducing off-site contamination better than Plan B;
- Decreases the area requiring non-drinking water use restrictions; and
- Among the plans which include off-site construction, Plan C minimizes off-site impacts and permit requirements.

The FS report concluded that Plan C satisfied the evaluation criteria mandated by CERCLA and the Superfund Amendments and Reauthorization Act of 1986 (SARA). Additionally, Plan C would eventually achieve the remedial objectives for groundwater east of the Old Crosscut Canal. The FS report further concluded that Plan C meets the SARA alternative technology requirement by employing soil-gas extraction as a supplement to ground-water pumping and treatment in the Courtyard, and as a replacement to pumping and treating groundwater in the areas of the ATP and SWPL areas. Due to the deep migration and high concentrations of VOCs in the Courtyard groundwater, soil-gas extraction could not replace pumping and treatment. In summary, Plan C was determined to be technically feasible, reliable, efficient, cost effective, and will protect the public health and the environment.

### **3.2.6 Remedial Action Plan**

A draft remedial action plan (RAP) was prepared by Motorola and submitted to ADEQ on June 24, 1988. The purpose of the RAP was to propose a remedy from the remedial alternatives evaluated in the FS and allow the public to review and comment on the selected plan. Alternative C was

proposed as an operable unit, meaning a partial or interim remedial measure. The operable unit would serve as an interim remedy intended to reduce contaminant concentrations and provide capture of contaminated groundwater until a final remedy is selected. Consequently, OU1 was intended to be the first stage of an expanded program which would involve innovative technologies, such as in situ biodegradation of VOCs.

The RAP provided a detailed description of Plan C which consisted of on-site and off-site extraction wells, an 810 gallons per minute (gpm) groundwater treatment plant located on-site, and on-site soil gas treatment. The treatment plant would include air stripping for organics removal with air emissions control. Treated effluent would be piped for use at locations in the Motorola plant to replace water supplied by the City of Phoenix.

The RAP outlined a program to evaluate the effectiveness of OU1 which included: (1) regular sampling and testing of extraction wells, the treatment plant, and soil-gas extraction systems; (2) periodic groundwater quality and soil gas monitoring; (3) periodic performance assessments that would focus on actual versus predicted achievement of cleanup levels; (4) testing the assumptions made regarding the DNAPL in the Courtyard; (5) the length of time to achieve cleanup objectives would be evaluated on a regular basis; (6) semiannual or yearly effectiveness reports, and (7) as required by CERCLA, a complete reassessment of the operable unit every 5 years.

The well survey conducted during the RI concluded that there were no known uses of the contaminated groundwater for drinking water purposes. Therefore, the implementation of the selected remedy would protect human health and the environment from all known current uses of the contaminated groundwater. The only potential use of groundwater identified in the OU1 area was for lawn irrigation and to fill swimming pools.

Motorola proposed to initiate implementation of Plan C as soon as possible. The remedial measures were begun in 1988 with the expansion of the PTP.

### **3.2.7 Letter of Determination, Record of Decision and Consent Order**

In September 1988, ADEQ issued a Letter of Determination (LOD) and the EPA issued a Record of Decision (ROD) for OU1. The LOD and ROD provided ADEQ's and EPA's approval of the RAP and outlined precisely what remedies are associated with OU1. These documents also provided

an explanation of how these remedies would be protective of human health and the environment. The LOD also provided a responsiveness summary of comments received during the public comment period of the OU1 RAP.

On June 20, 1989, Motorola signed a Consent Order (CO) with ADEQ agreeing to implement a groundwater and soil remedy for OU1. The purpose of the CO is to serve the public interest by protecting public health, welfare, and the environment from releases of hazardous substances at the Site. Motorola was identified as a responsible party and ordered to contain and control the migration and level of contaminants in the groundwater. The work was to be conducted as described in the CO. On July 26, 1989, the Motorola 52<sup>nd</sup> Street CO was lodged with the Arizona Superior Court.

The CO was issued to establish an agreement between Motorola and ADEQ to: (1) design, construct, implement, and maintain a groundwater extraction, conveyance, and treatment system; and (2) to design, construct, and operate three SVE systems on-site. The CO acknowledged that the OU1 does not constitute the final remedy for the Site. The final remedy will be determined after completion of a Final RI/FS and ROD. In addition, per agreements reached by ADEQ and Motorola, no clean up level for the contaminated aquifer was established in the CO. However, in operating OU1, Motorola is still required to comply with Arizona treatment standards for all contaminants attributable to the Motorola 52<sup>nd</sup> Street facility.

The following outlines ARARs that are required to be met by Motorola to satisfy the terms and conditions of the CO:

- OU1 shall maintain a zone of capture to contain the migration of contamination east of the Old Cross Cut Canal.
- OU1 shall reduce the levels of contamination in groundwater.
- All water from the groundwater extraction and treatment system will be beneficially used at the Motorola 52<sup>nd</sup> Street facility consistent with the Groundwater Code, including applicable area management plans.
- The treatment plant discharges shall meet federal, state, and local standards for treatment plant discharge levels.
- The total concentration of VOC's shall not exceed 100 parts per billion (ppb) in discharges

of treated groundwater.

- Total Toxic Organics (TTO's) concentrations in the wastewater discharged from the Motorola facility shall not exceed the average value measured (186 ppb) during the 3 years prior to the entry of this CO.
- Should the 3-year average of TTO's be exceeded for 3 consecutive months, the total concentration of VOC's in the treated groundwater must not exceed 50 ppb VOC's, of which there must be less than 5 ppb TCE.

As a result of information provided in the RI/FS, ROD, LOD, and CO, in October 1989, the site was placed on the EPA CERCLA National Priorities List (NPL).

### **3.2.8 Integrated Groundwater Treatment Plant**

The groundwater PTP within the Courtyard area was in operation until July 1992 when the permanent IGWTP became operational (Figure 2).

- On March 12, 1991, the 100% completion design drawings for the off-site groundwater extraction and conveyance system were submitted to ADEQ.
- On May 6, 1992, a baseline report prior to the startup of the IGWTP was submitted to ADEQ. This baseline report was used to compare against the reports for subsequent years in order to evaluate the effectiveness of OU1.
- In July 1992, the IGWTP commenced operations.

Operation of the IGWTP was temporarily suspended in June 1993 due to a vinyl chloride air emission problem (See Appendix B for more detail). After a six-month shutdown to fix the problem, the entire extraction system was put back into continuous operation on December 28, 1993. The effect of the shutdown was evaluated in the 1993 OU1 Effectiveness Report. The treatment system has been in continuous operation since December 1993 with approximately 7% down time for maintenance.

In August 2000, the updated Operation and Maintenance (O&M) Manual for the IGWTP was submitted to ADEQ. The O&M manual consisted of basic system design criteria, operation and maintenance requirements of major system components, and monitoring and reporting requirements. The OU1 system is controlled by computer through a main control panel located at the IGWTP and

monitored by operational personnel. The manual also established site specific health and safety requirements necessary for safe and efficient operation of the groundwater treatment system.

The on-site IGWTP management team is responsible for the safe operation and compliance with all safety, environmental, governmental, regulatory, and Motorola requirements. However, since the IGWTP is located on the ON Semiconductor campus, the Management Team must also coordinate certain activities and communications with personnel at ON Semiconductor.

The O&M Manual is intended to be used in conjunction with the OU1 Health and Safety/Emergency Response Plan (OU1HASP). The OU1HASP is revised occasionally to reflect changes in equipment, operations, and procedures.

### **3.2.9 Poor Quality Groundwater Withdrawal Permit**

On May 8, 1991, ADWR issued a Poor Quality Groundwater Withdrawal Permit (PQGWWP) # 59-530577, for the OU1 groundwater extraction program. The permit required quarterly monitoring and reporting for both extraction and monitoring wells. The purpose of the permit was to: (1) provide information about the quality of groundwater and determine when the groundwater ceases to be classified as "poor quality", and (2) ensure that groundwater withdrawal is consistent with the 1991 Phoenix Active Management Area Second Management Plan. The definition of "poor quality" is determined by comparing groundwater data to EPA maximum contaminant levels (MCLs), or ADEQ's aquifer water quality standards (AWQSs), for the contaminants of concern. If results of the collected groundwater data exceed the MCL/AWQS for one or more contaminants, the groundwater remains classified as "poor quality".

Beginning in October 1991, after appropriate monitoring plans were developed, quarterly groundwater monitoring of the OU1 wells in accordance with the PQGWWP was initiated. The first PQGWWP progress report was submitted on January 28, 1992. Quarterly PQGWWP monitoring and quarterly/annual reporting activities continued through the end of 1997. On January 5, 1998, Motorola submitted a Request for Modification to the PQGWWP to eliminate chloroform, 1,2-DCE, and Carbon Tetrachloride from the key parameters list, and to reduce the sampling frequency to semiannually. This modification request was approved by ADWR.

### **3.2.10 Groundwater Monitoring and Progress Reporting**

On May 12, 1987, a task specification document was submitted to ADEQ to establish a long-term groundwater monitoring plan for the Site. This plan was updated by Motorola and approved by ADEQ on January 26, 1998. Under this monitoring plan, wells associated with OU1 would be sampled on a semiannual or annual basis with water levels measured quarterly. The locations of the OU1 wells are shown in Figures 3, 4, and 7.

In addition to the semiannual Groundwater Monitoring/PQGWWP report, Motorola also submits an annual Effectiveness Report. The purpose of this report is to provide an assessment of the overall effectiveness of OU1 with respect to hydraulic containment of contaminated groundwater. Motorola concluded in each of their yearly evaluations that OU1 has maintained a capture zone adequate to contain the entire width and depth of the TCE contaminant plume (Appendix C). The total gallons pumped from OU1, from pre-1992 through 1999, was estimated to be 1.68 billion gallons. The total DNAPL removed at MP03-D, from 1994 through 1999, was estimated to be 83.5 pounds. The total VOCs removed from the groundwater in OU1, from 1992 through 1999, was estimated to be 12,522 pounds. The reports further concluded that the overall trend of TCE concentrations in the groundwater remained consistent with the trends observed in previous years; initially high TCE concentrations were steadily decreasing. Additionally, the reports concluded that the reduction in TCE concentrations in the alluvium at and downgradient from the Old Crosscut Canal indicates that continuous pumping of the OU1 has had a beneficial effect on the water quality in the alluvium. This is apparent when comparing the 1992 baseline TCE concentration maps to the Fall 2000 TCE concentration maps (Appendix C). Motorola suggests that the increasing concentrations of TCE around the alluvium/bedrock interface indicates that TCE is slowly moving upward along fractures in the bedrock, increasing the concentration in shallow bedrock monitoring ports while migrating toward the extraction wells.

Review of the March 2000 Effectiveness Report for the 1999 year of operation showed a sharp significant increase of TCE in extraction well DM306. In a letter dated June 18, 2001 (Appendix D), Motorola provided a response stating that the increasing concentrations observed in DM306, and more recently other wells (i.e., DM305, DM307, and DM313), are the result of the decline in water levels which has necessitated a reduction in pumping rates to prevent the well from pumping dry. This in turn has resulted in an increased percentage of flow from groundwater in the bedrock which contains higher concentrations of TCE. Previously, when water levels and corresponding pumping

rates were higher, the greater volume of water pumped from the alluvium diluted the lower volume (bedrock). With less water being pumped from the alluvium and more water being pumped from the bedrock, increased concentrations of TCE have been observed from these wells. Based on these

findings, Motorola maintained that the OU1 extraction system continues to adequately capture the VOC plume. Further evaluation of these findings is presented in Sections 7.1 and 8.1.

### **3.2.11 1988 Health Assessment**

On May 2, 1988, the Agency for Toxic Substance and Disease Registry (ATSDR) submitted the results of a health assessment for contaminants associated with OU1. The health assessment was performed in accordance with SARA. The health assessment report surmised that: (1) the groundwater, soil, and soil gas at the Motorola 52<sup>nd</sup> Street Facility is contaminated with high concentrations of VOCs; (2) the COCs found in groundwater, soil, and soil gas at the site included: TCE; 1,1-DCE; 1,1-DCA; PCE; 1,1,1-TCA; trans1,2-DCE; carbon tetrachloride; ethylbenzene; and trichlorotrifluoroethane; (3) the contaminated groundwater had migrated off-site to the west; (4) low concentrations of the site-related VOCs, specifically 1,1,1-TCA, TCE, and PCE, were detected in some off-site wells that were currently in use; (5) the use of off-site groundwater was known to be used for the irrigation of crops and lawns, and filling swimming pools; (6) water from some on-site and off-site wells contained elevated concentrations of inorganic chemicals such as arsenic, cadmium, chromium, lead, and nitrate; and (7) the available information did not indicate whether these inorganics were naturally occurring in the water or whether their presence was related to industrial activities. In addition, the health assessment was conducted based upon the assumption that groundwater within the site area would not be used for potable purposes. Environmental pathways for contaminants from the site included groundwater, soil, air, and contaminated food. Low concentrations of contaminants in surface water indicated that surface water and sediments were not pathways of concern for this site.

The following exposure routes were evaluated: (1) ingestion or use of contaminated groundwater or contaminated agricultural products; (2) dermal contact of groundwater contaminants and ingestion of water during swimming; (3) inhalation of VOC contaminants and fugitive dusts; and (4) consumption of plants or animals which may have bioaccumulated groundwater contaminants.

The report concluded that under current conditions (at the time of the health assessment) the Site is unlikely to pose any threats to human health. Although on-site and off-site groundwater is contaminated, contaminant levels at the points of groundwater extraction were below the levels of concern. However, the report notes that future migration of groundwater contaminants may increase the level of contaminants at points of groundwater extraction and may render the groundwater unsuitable for even non-potable uses. The report also concludes that soil and soil-gas contaminants should not pose a threat to human health.

The report provided the following recommendations in order to ensure continued protection of human health: (1) continue to monitor off-site groundwater contamination to track the movement of the contaminant plume and define the extent to which the site has impacted groundwater quality; (2) continue to monitor off-site wells in the impacted areas that are being used for irrigation or residential use; (3) workers conducting remedial activities should use adequate personal protective equipment; (4) dust generated during remedial activities should be optimally controlled; (5) during real-time work, site periphery air monitoring should be done in addition to on-site air monitoring; and (6) ambient air at the periphery of the site should not exceed the National Ambient Air Quality Standards (NAAQS) or the National Institute for Occupational Safety and Health (NIOSH) recommendations.

As a follow-up to the 1988 Health Assessment, ATSDR conducted a Site Review and Update in 1993 and 1996. Additionally, ADHS completed a Baseline Risk Assessment in November 1992. These assessments included both OU1 and OU2, however, for the purposes of this five year review only the OU1 issues will be discussed.

The 1992, 1993, and 1996 assessments discussed two private wells within the OU1 area: Well 4626G (Morgan well) and the Turnage well. The Morgan well is located northwest of the Motorola facility at 4626 East Granada Street, just north of McDowell Road. It is a private water supply well registered for domestic use and has been primarily used for residential swimming pool water and for grounds irrigation. The well was also used for indoor domestic purposes for a period of about six months in the late 1980's. The Baseline Risk Assessment provided a summary of the analytical data from the Morgan well collected between 1987 and 1992. During this period, boron, fluoride, and lead were determined to exceed the MCLs. Four organic compounds were found in the samples

but none exceeded the MCLs. The assessments recommended an increase in the frequency of monitoring the Morgan well.

The Turnage well is located at 1502 North 46<sup>th</sup> Street, just south of McDowell Road. This well was used as a domestic water source for about 20 years, from 1948 to 1969 or 1970. The well was sampled by ADEQ for VOCs during the period from 1984 to 1986. Ranges in reported concentrations were: TCE 1,600 - 12,000 ppb; PCE 14.2 - 60 ppb; 1,2-DCB <2 - 45 ppb; 1,2-trans DCE 3.1 - 98.7 ppb; and methylene chloride <0.5 - 6,350 ppb. Sampling by ADEQ was discontinued in 1986 when Motorola installed a monitor well, DM106, in close proximity to the Turnage well. In 1986, a locked steel housing was installed to protect the well and prevent its use. Access to the well has been controlled by Motorola since installing the lock. The time at which the well became contaminated is not known and cannot be established. It is not possible to estimate past risk from domestic use of the well water for a 20 year period ending approximately in 1970. In other words, the risk can only be calculated for those periods of time that analytical data was collected. Therefore, since data was not collected until approximately 14 years after the well was removed from service (1984), and there is no way to predict the VOC concentration levels from 1948 to 1970, it is not possible to estimate past risk. ADHS did not use the Turnage well in the quantitative risk assessment due to the lack of data and the fact that the well was not currently (1992) in use.

A list of recommendations that were made in the ATSDR 1993 Site Review and Update were reassessed in the 1996 report to ensure that they had been addressed. The report identified several issues specific to OU1 that still had not been addressed, they are: (1) institutional controls were to remain in place, however, none of the agencies contacted were aware of any controls; and (2) the frequency of monitoring the Morgan well was not increased as recommended. In fact, ADEQ reported that it had not been sampled for years. However, ADEQ indicated that Mr. Morgan did not want his well sampled any longer. Also, ATSDR reported that Mr. Morgan installed a new well in February 1996 because his original well went dry. Mr. Morgan's new well is registered with ADWR and is used for irrigation and domestic purposes.

In the early 1990s ADEQ installed a monitor well, EW18, directly east (or upgradient) to the Morgan well. EW18 is sampled semiannually and TCE concentrations in the last five years have been between 0.78 ppb and 26 ppb. Since 1997, TCE concentrations have been slightly increasing

each year. Therefore, it is likely that Mr. Morgan's well has been impacted by the contamination. In response to this issue, ADEQ recommends that Motorola attempt to gain access to Mr. Morgan's well. If an access agreement is successful, Motorola will collect groundwater samples from this well for VOC analysis on a semiannual basis and provide all analytical data to Mr. Morgan.

The 1992 Baseline Risk Assessment includes a map which provides the locations of the monitor wells, domestic use wells, and public irrigation wells that are located in the OU1 and OU2 areas. A well located at 1050 North 46<sup>th</sup> Street (south of McDowell Road), referred to as the Willis well, is shown to be "closed". However, there are no discussions regarding this well in the 1988, 1992, 1993, or 1996 health assessments. During this five year review, information regarding the Willis well was not readily available to ADEQ or ADHS. ADEQ recommends that further investigate the Willis well and confirm that the well has been removed from service.

ADEQ assigned a special task to ADHS to conduct an exposure assessment focusing on contaminated soil gas. Two exposure scenarios were used: indoor residential and outdoor residential. It was assumed that soil gas diffused from the soil to the ambient air and into residential structures through crawl spaces or via cracks in cement slabs. In April 1992, ADHS issued their report, *Addendum to Motorola 52<sup>nd</sup> Street Baseline Risk Assessment; Soil Gas Sampling*, which concluded that residential populations do not appear to be at risk of negative health effects from exposures to soil gases in the area west of the Motorola 52<sup>nd</sup> Street facility. Concentrations of 1,1-DCE are high enough to suggest that further study of potential indoor exposures may be warranted. The November 1992 Baseline Risk Assessment does not address this issue nor does the ATSDR Site Reviews and Updates.

### **3.2.12 Groundwater Modeling of Capture in Bedrock**

The April 1995 *OU1 Effectiveness Report for 1994*, provided a discussion of capture analysis. The analysis was used to support deep bedrock capture by the OU1 system. A detailed review and assessment of the model is provided in Sections 7.3 and 8.3. The model is provided as Appendix E.

### **3.2.13 Recovery of Dense Non-Aqueous Phase Liquid**

In 1994, Motorola initiated a program of periodic recovery of DNAPL from a monitor well (MP03-D) located in the Courtyard. MP03-D is screened in the bedrock at a depth of 162 feet bgs. Since

previous sampling of MP03-D had revealed the presence of DNAPL, a program of weekly to biweekly bailing to recover DNAPL was started in 1994 and continues to present time. Through the calendar year 1999, approximately 4.4 gallons of DNAPL has been removed, which equates to approximately 83.5 pounds of TCE.

#### **3.2.14 Courtyard Soil Remedy Implementation**

From December 20, 1990 to May 4, 1993, an SVE pilot test was completed at the Courtyard area. On May 7, 1992, the installation of the Courtyard soil vapor extraction (CYSVE) system was completed. The CYSVE blowers were located within the groundwater PTP (See Figure 6), and the extracted soil vapor was treated through the existing vapor phase carbon vessels used during the initial groundwater PTP testing. From May 8 through May 13, 1992, the baseline data was collected for the CYSVE system. The pilot program was then initiated on September 21, 1992 and completed on March 31, 1993. Upon completion of the pilot program, the CYSVE system was never restarted.

Numerical models were used to evaluate the CYSVE pilot test and to estimate the potential for residual vadose VOCs beneath the Courtyard to impact shallow groundwater. The results of the groundwater impact model were: (1) vadose TCE and PCE concentrations in the zone near the SVE well are nearly in equilibrium with current groundwater concentrations; (2) SVE was ineffective in eliminating TCE and PCE from the zone of elevated VOCs in vadose soils located near the SVE well; (3) VOCs in this zone presumably reside in low-permeability soils that are not amenable to remediation by SVE; and (4) predicted TCE groundwater concentrations at the property boundary, that would result from the residual vadose VOCs in the Courtyard, are nearly two orders of magnitude less than existing shallow groundwater concentrations beneath the site.

In April 1997, a report on the evaluation of the CYSVE system was submitted to ADEQ. The report concluded that additional SVE in the Courtyard area was considered to have no significant remedial benefit because: (1) SVE was demonstrated to be ineffective in eliminating the residual vadose VOCs believed to be present in the low permeability soils located near the SVE well, (2) the potential impact of residual vadose VOCs on existing shallow groundwater conditions would be negligible, and (3) it was demonstrated that continued SVE operations were not economically feasible. Therefore, Motorola submitted a letter requesting closure of the CYSVE (Appendix F).

### **3.2.15 Voluntary SWPL Groundwater Remedy Implementation**

In 1991, Motorola initiated the investigation of groundwater and the implementation of a voluntary groundwater extraction program within the SWPL area. The voluntary program was implemented because the results of the periodic sampling of well DM201, located within the SWPL area (Figures 7 and 8), indicated that TCA and 1,1-DCE were increasing in concentrations.

The following RI activities were performed in the SWPL area:

- A soil gas investigation was conducted at 23 locations within the SWPL area.
- On June 28, 1991, a pump was installed in well DM201OB1 and pumping activities were initiated.
- During the months of January and February 1992, groundwater extraction wells were installed and completed (Figure 8).
- During the month of May 1992, the extraction wells were put into operation.
- On September 11, 1992, a Final Draft of the SWPL RI Work Plan was submitted to ADEQ. This work plan provided additional investigation activities to characterize the lateral and vertical extent of VOCs in the SWPL area and to develop a technical foundation for future remedial activities.

In May 1993, the results of the investigative activities performed at the SWPL area were presented in a draft report. The specific objectives of the SWPL RI were: (1) to delineate the lateral and vertical extent of VOCs in the groundwater; (2) characterize the groundwater flow patterns in soil and bedrock; and (3) develop remedial alternatives for the site. The following contains summaries of key findings to the May 1993 report.

- The groundwater flow gradient in the SWPL area is to the southwest and is currently altered by ground-water pumping. Ground-water flow in the alluvial aquifer is controlled by the saturated thickness of the alluvium and by the contoured bedrock surface. Groundwater flow in the bedrock is controlled by structural discontinuities in the rock mass. Zones of increased bedrock fracturing typically strike northwest/southeast and dip relatively steeply to the southwest.
- The former sump in the Building A-D chemical mixing and bottling room appears to be the principal source of TCA and DCE found in the groundwater at the SWPL area. The source of PCE and TCE contamination could be located upgradient of the SWPL area and is unknown. The lateral extent of TCA, DCE, and PCE in groundwater is defined to the

northeast, northwest, and southwest directions but not toward the southeast. The lateral extent of TCE in groundwater appears to be adequately defined to the southwest, but not in the other directions. The vertical extent of VOC concentrations is defined at the southern boundary of the SWPL area.

- Elevated concentrations of the inorganic constituents (arsenic, fluoride, and nitrate) were identified in groundwater in the SWPL area and immediately downgradient. However, the report states that there is no demonstrated connection between this observation and Motorola's disposal practices in the SWPL area. These elevated concentrations may be related to background or agricultural activities conducted in the area prior to Motorola acquiring the site.
- The RI report also provided an evaluation of the SWPL groundwater extraction system which indicated that the current extraction wells are effective in containing and remediating VOCs in the groundwater.

### **3.2.16 SWPL Soil Remedy Implementation**

On September 23, 1992, a draft In-Situ Air-Sparging/SVE System Field Test (Pilot Test) Plan was submitted to ADEQ for the SWPL area. ADEQ approved this plan and in January 1993, three SVE wells (TW001 through TW003) and one air-sparging (AS) well (AS002) were installed within the SWPL area (Figure 8).

From February 11 through February 25, 1993, SWPL SVE and AS/SVE pilot tests were conducted in two locations: the parking lot and Building A-D (Figure 8). The results were reported to ADEQ on April 21, 1995. The pilot tests confirmed that these technologies proved effective in reducing VOC contamination in the vadose zone at the SWPL area. In addition, during the 4.5 days of testing, 265 pounds of VOCs were recovered around Building A-D. Based on these findings, ADEQ recommended that Motorola evaluate applying the AS/SVE technology on a larger scale in the Building A-D area to remove residual VOCs in the vadose zone and reduce VOC contamination in the groundwater. It was also recommended that the current SWPL groundwater treatment system be maintained to continue containment of VOC contamination on-site and keep the water table lowered to enhance the effectiveness of the AS/SVE operations.

On April 25, 1995, the design report, plans and specifications detailing the proposed permanent SVE/AS system were submitted to ADEQ. The SVE system was required in the 1989 consent order,

however, the AS system was strictly a voluntary system proposed by Motorola to enhance the remediation of VOCs in the groundwater at the SWPL area. ADEQ approved these plans in a letter dated June 1, 1995.

Construction of the SWPL AS/SVE system was conducted during June through November 1996 at which time the system was started-up and continued operations through April 1997. After shutdown in April 1997, the system was never restarted. Detailed descriptions of the SWPL AS/SVE systems are provided in Section 4.1.2 of this report.

On December 22, 1998, a report on the evaluation of the SWPL SVE system was submitted to ADEQ. The purpose of this report was to evaluate the construction, start-up, and operation of the SWPL SVE system and assess its effectiveness in reducing VOCs within the vadose zone. The report specified that the SWPL SVE system was operated for a period of five months. During that time period, extracted VOC concentrations in the extraction wells declined to concentrations less than 2 parts per million by volume (ppmv). Cyclical SVE operations within the source area did not generate a substantial increase in VOC mass removal and minimal rebound was observed. Extracted VOC concentrations decreased to steady state levels within 12 hours of cyclical operation commencement. The report concluded that based on the reduction in extracted VOC concentrations and the reduced vadose zone concentrations, SVE operations have successfully achieved the objective of removing residual VOCs in the soil. Consequently, Motorola submitted a letter to ADEQ on March 21, 2001, requesting closure of the SWPL SVE system (Appendix F).

### **3.2.17 First Five Year Review**

In September 1995, ADEQ completed the first five-year review report for the Motorola 52<sup>nd</sup> Street Superfund Site. Although the review concluded that the interim remedy was effective in the alluvial portion of the aquifer, ADEQ expressed concerns about the groundwater containment system attaining complete capture of the plume within bedrock. Specifically, well DM603, immediately downgradient from the extraction wells, had a 40% increase in the concentration of TCE from the sampling port below the bedrock/alluvium interface during the past three quarters. TCE increased from 8,100  $\mu\text{g/L}$  to 20,000  $\mu\text{g/L}$ . Review of TCE concentration data from 1991 to 1995 indicated that the current concentration (at the time of the 1995 review) was at a historic high. It is likely that the increasing concentrations of TCE were coming from a source up gradient to DM603 (most likely migrating from the Motorola 52<sup>nd</sup> St facility) rather than being drawn back from downgradient as

an artifact of the extraction wells. On November 16, 1995, EPA accepted and approved the five-year review report. Further evaluation of well DM603 was performed during this five-year review period and is detailed in Sections 7.1 and 8.1.

## **4.0 REMEDIAL ACTIONS**

### **4.1 REMEDY SELECTION**

ADEQ's LOD and CO, and EPA's ROD describes the selected remedy as the Alternative "C". Alternative "C" is an interim remedy designed to meet the following remedial objectives (ROs) which were established to provide a cleanup consistent with a more comprehensive, final solution:

- Protect public health and the environment by recovering and treating contaminated groundwater;
- Reduce current contamination levels in groundwater;
- Provide containment of contaminated groundwater encountered east of the Old Crosscut Canal;
- Expedite recovery of contaminated groundwater between the Old Crosscut Canal and the Motorola plant on 52<sup>nd</sup> Street;
- Assure beneficial use of contaminated groundwater that is extracted and treated;
- Incorporate permanent solutions and alternatives, innovated technologies in the cleanup process to the extent possible.

In accordance with the LOD and ROD, Alternative C consists of the following basic components:

- On-site extraction and treatment of groundwater from the Courtyard and 50<sup>th</sup> Street Area;
- On-site vapor extraction and treatment at the Courtyard area, the ATP, and SWPL area;
- Off-site extraction of groundwater to hydraulically contain migration of the groundwater plume east of the Old Crosscut Canal;
- On-site treatment of extracted groundwater from on-site and off-site wells; and
- Use of all treated groundwater at the Motorola Facility.

The OU1 interim remedy evaluated during this five-year review consists of: (1) a SVE remediation system within the Courtyard that included one extraction well; (2) a SVE remedial system within the SWPL area; and (3) four on-site extraction wells and nine off-site extraction wells which are all piped to the IGWTP. In addition to these OU1 remedial systems, Motorola voluntarily initiated a groundwater remediation program within the SWPL area that included: AS wells combined with the SVE wells and twelve groundwater extraction wells, all of which are also connected to the IGWTP. The general locations of these remedial systems are shown in Figure 2.

#### **4.1.1 Groundwater Remedy**

The groundwater extraction system consists of 16 on-site and 9 off-site extraction wells. The 16 on-site extraction wells are intended to reduce the high concentrations within the source areas. The 9 off-site extraction wells provide hydraulic containment west of the site to approximately the Old Crosscut Canal. There are also a total of 68 monitoring wells within OU1, 27 of which are multilevel or Westbay wells (See Figure 7).

The IGWTP system consists of two air strippers, four liquid phase GAC vessels, two vapor phase GAC beds, and three vent scrub canisters. Figure 9 provides a process flow diagram of the IGWTP. Groundwater from the extraction wells are pumped at a current average rate of 356 gpm to the IGWTP where the groundwater enters one of two 17,080 gallon storage (surge) tanks. From the storage tanks, acid and biocide treatment is applied to the groundwater to inhibit hardness and bio-fouling in the primary air stripper (AS-201). The water then passes through a static mixer and enters AS-201. Effluent water from AS-201 is then pumped to a secondary air stripper AS-301 for additional treatment. Effluent water from AS-301 is then pumped through two liquid phase GAC vessels connected in series for VOC polishing. After VOC polishing is completed, the water is then routed to a storage tank and used in the facility RO/DI plant and/or for use in the facility cooling towers. The stripped effluent vapor from AS-201 is routed through a dehumidifier to reduce the relative humidity of the vapor stream. VOC laden vapors are then treated by two vapor phase GAC beds. The vapor phase GAC is regenerated by using steam to desorb the VOCs. Vapors from the discharge of the GAC are routed to AS-301. Effluent vapor from AS-301 is recirculated through AS-201 and any excess vapor (approximately 1%) is routed through GAC prior to discharge to the atmosphere. The spent liquid phase GAC and all recovered waste solvents are shipped off-site as a hazardous waste. Based on a review of hazardous waste manifests submitted by Motorola, the quantity of recovered solvents generated on a monthly basis ranges from 100 to 150 pounds.

#### **4.1.2 Soil Remedy**

The Courtyard SVE remedial system was never modified from the pilot treatment system because the effectiveness evaluation performed by Motorola (See Section 3.2.14) concluded that additional SVE in the Courtyard area was considered to have no significant remedial benefit. The Courtyard SVE system consists of one SVE well, EX-1, that is connected to a vapor treatment system within the PTP area (Figure 6). The process flow diagram for this system (Figure 10) shows that the extracted vapor from the well is routed to the vapor treatment system consisting of two vapor phase

GAC vessels which remove the VOCs prior to discharge into the atmosphere. The system was designed to produce an effective radius of influence of 25 feet. The SVE system was in operation from September 21, 1992 to March 31, 1993.

The CO required treatment of soil vapor at the ATP, however, no documents were available which confirmed that a SVE system had been implemented in this source area.

The SWPL soil remediation system consisted of six combined SVE/AS wells (Figure 8) and six GAC vessels. The process flow diagram for this system is attached as Figure 11. Air is injected via the AS wells into the groundwater with an air compressor. Prior to injection, the air goes through an oil filter and air dryer. The VOCs in the groundwater are volatilized and migrate up to the vadose zone. VOCs in the vadose zone are then extracted by the SVE wells that are connected to a blower and routed to the vapor treatment system housed within Building A-D. The vapor treatment system consists of six vapor phase GAC vessels which remove the VOCs. The treated air is then routed to a heat exchanger prior to discharge into the atmosphere. The SVE system was designed to produce an effective radius of influence from 30 to 40 feet. The AS system was designed to produce an effective radius of sparging influence of approximately 90 feet.

#### **4.2 REMEDY IMPLEMENTATION**

The history overview of the implementation of the IGTWP is provided in Section 3.2.8. The IGTWP has been in operation since July 1992. The groundwater extraction system is designed to treat approximately 810 gpm and receives groundwater from 23 extraction wells. Currently, due to dewatering of the alluvium, the IGTWP is operated at approximately 356 gpm. Wells DM313 and DM312 were taken offline (with ADEQ's approval) in the summer of 1993 and the winter of 1995, respectively, because VOC concentrations decreased to below the MCLs. These wells are currently being used as monitoring wells. As of December 31, 2000, the on-site treatment system processed approximately 1.85 billion gallons of groundwater, from which approximately 13,394 pounds of VOCs have been removed.

The history overview of the implementation of the CYSVE system is provided in Section 3.2.14. Since the completion of the pilot test (March 31, 1993) the system has not been in operation and recommendations have been made by Motorola not to conduct any further SVE remediation within the Courtyard area. Evaluation of the CYSVE is provided in Sections 7.4 and 8.4 of this report.

The history overview of the implementation of the SWPL SVE/AS system is provided in Section 3.2.16. The SWPL SV/AS system was operated from December 3, 1996 to January 20, 1997. The system was operated with all extraction well open at all times until March 3, 1997 when cyclical operation of the SVE/AS system was initiated. Cyclical operation of the system within the source area did not generate a substantial increase in VOC mass removal and minimal VOC concentration rebound was observed. SVE/AS operation was completed on April 18, 1997 when apparent asymptotic concentrations were achieved. After SVE treatment, soil gas VOC concentrations decreased substantially when compared to the soil gas concentrations prior to treatment. On March 21, 2001, Motorola provided a written request for a No Further Action (NFA) of the continued soil remediation at the SWPL area. Evaluation of this closure request will be provided in a supplemental report.

#### **4.3 SYSTEM OPERATIONS**

The CYSVE and SWPL AS/SVE systems are not currently in operation. In terms of the operation of the IGWTP system, Motorola retained the services of Clear Creek Associates to conduct all monitoring activities described in Section 3.2. Daily maintenance activities are performed by GPI in accordance with the August 2000 O&M Manual for the IGWTP.

From 1996 to 1998, O&M costs for the IGWTP, in general, were consistent with the original estimate of \$700,000 (June 1987). In 1999, the O&M costs decreased by approximately 37%. Motorola stated that the decrease in the 1999 O&M costs were the result of reduced staffing and reduction of the vapor phase carbon regeneration schedule from once a day to once every 3 to 4 days. Table 2 provides the annual O&M costs from 1996 to 1999. These costs do not include other response costs that were incurred for OU1 (e.g., groundwater monitoring, reporting, access).

#### **4.4 PROGRESS SINCE THE LAST FIVE-YEAR REVIEW**

The following progress was made in the operation of OU1 since the last review:

- Continued operation of the IGWTP resulting in additional recovery of VOCs in the groundwater. As of December 31, 2000, approximately 13,394 pounds of VOCs have been removed.
- DM312 was taken offline (with ADEQ's approval) in the winter of 1995 because VOC concentrations decreased to below MCLs.
- The SVE and voluntary AS remediation at the SWPL area was implemented in December

1996. Both systems are currently inactive and closure requests were submitted by Motorola.

- Additional recovery of DNAPL from well MP03-D which has removed, as of December 31, 2000, approximately 5.6 gallons of DNAPL. This equates to approximately 98.4 pounds of VOCs.

## **5.0 FIVE-YEAR REVIEW PROCESS**

Section 121(c) of CERCLA requires that the lead regulatory agency conduct a review of any remedial action selected that results in any hazardous substances, pollutants, or contaminants remaining at the Site no less often than every five years. The 1988 LOD and ROD for the 52<sup>nd</sup> Street Superfund Site allow the hazardous substances to remain on site; therefore, five year reviews are required by statute. Guidance for this review is provided in OSWER Directive 9355.7-03B-P Comprehensive Five-Year Review Guidance, Dated June 2001, EPA 540R-98-050.

The first five year review was conducted on September 5, 1995. Consequently, the subsequent review must be initiated no later than September 5, 2000. ADEQ will then determine whether human health and the environment are adequately protected by the remedial action. EPA will provide a concurrence letter on the findings.

The 52<sup>nd</sup> Street five year review was lead by Kris Kommalan, Project Manager of ADEQ, who provided oversight of the review process that was conducted by HESE (ADEQ's consultant). The following team members took part in the review:

- Kris Kommalan, ADEQ Project Manager;
- John Kivett, ADEQ Project Hydrologist;
- John Kim, HESE Project Manager;
- Sanjay Sangani, HESE Professional Engineer;
- Dave Peskin, HESE Remedial Engineer;
- Steve Willis, HESE Senior Hydrologist;
- Nadia Hollan, EPA Project Manager;
- Thomas Suriano, Motorola.

The five year review consisted of the following activities: (1) development of a work plan, a review of relevant documents (Appendix A); (2) interviews with appropriate operations staff, state and federal agencies, local government officials, and concerned community members; and (3) a site inspection. In addition, a public notice regarding the initiation of the forthcoming review was placed in the local newspaper (See Appendix G). The final report is available at ADEQ and the local site repositories which are located at the Central Branch and the Saguaro Branch of the City of

Phoenix public library. Notice of its completion will be placed in the local newspaper and local contacts will be notified by letter. A brief summary of this report will be distributed to community members by ADEQ.

## **6.0 FIVE-YEAR REVIEW FINDINGS**

### **6.1 INTERVIEWS**

The following individuals were interviewed during this five-year review process by personal contact or by telephone:

- Tom Suriano, Manager of Remediation & Due Diligence, Motorola SPS - Interviewed on February 07, 2001 at the ADEQ Office.
- Dr. David Huntley, San Diego State University and Robert Frank, CH2M Hill (representing Keith Bowers of Honeywell) - Interviewed on February 14, 2001 at the ADEQ Office.
- Bob Atkinson, Director of Health & Safety, ON Semiconductor - Interviewed on March 20, 2001 at the 52<sup>nd</sup> Street Facility.
- Larry Rodriguez, Operations Manager, GPI - Interviewed on March 20, 2001 at the 52<sup>nd</sup> Street Facility.
- Leo Wilson, Technician, GPI - Interviewed on March 20, 2001 at the 52<sup>nd</sup> Street Facility.
- Jim Lemmon, Gateway TAG - Telephone Interview on May 30, 2001.
- Karen O'Reagan, Environmental Programs Director for the City of Phoenix - Telephone Interview on May 30, 2001.
- Maria Fant, Previous Motorola 52<sup>nd</sup> Street Project Manager, ADEQ - Telephone Interview on May 31, 2001.
- Mason Bolitho, Manager of Water Quality Section, ADWR - Telephone Interview on May 31, 2001.
- Steve Brittle, Don't Waste Arizona - Telephone Interview on May 31, 2001.
- Bill Ruddiman, Previous Motorola 52<sup>nd</sup> Street Hydrologist, ADEQ - Telephone Interview on May 31, 2001.
- Nadia Hollan, Project Manager, EPA Region 9 - Telephone Interview on June 1, 2001.
- Cody Williams, Councilman, City of Phoenix Council - Telephone Interview on June 6, 2001.

The following individuals were not available or declined the interview:

- Jason Weed, Project Engineer, GPI - Was not available during the interview process.
- David Baumann, Safety Coordinator, BOC Gases - Stated that he had no input on the operation of OU1.
- Brent Grove, General Manager, BOC Gases - Was not available during the interview

process.

- Greg Stanton, Councilman, City of Phoenix Council - Declined interview.
- Sue Sedgewick, Community Member - Could not be reached.
- Sandy Bahr, Sierra Club - Scheduling conflict.

The detailed accounts of the interviews are presented in Appendix H, which are briefly summarized in the following paragraphs.

**Mr. Tom Suriano, Project Manager, Motorola.** Mr. Suriano is responsible for overseeing all O&M, Monitoring, and Reporting activities performed at OU1. Excerpts of his responses are as follows. He is familiar with all aspects of the project and was familiar with all O&M and monitoring activities at the site. The OU1 remedy has been very successful, both in terms of the early implementation of the groundwater remedy and in the results seen to date (i.e., decreasing concentrations of VOCs in groundwater within and downgradient from the OU1 area). The soils portions of the remedy have been successfully completed at both the Courtyard and SWPL areas. There have been no O&M problems or difficulties within the last 5 years that have affected the protectiveness or the effectiveness of the remedy. Generally, only routine O&M activities occurred. Pumps have been lowered and pumping rates reduced in some of the wells in response to decreasing water levels over time. None of these changes have adversely impacted the ability of OU1 to maintain capture. Changes made since the initial start-up of the IGWTP include: (1) modifying the air recirculation system from 100% recycle to providing a 1% bleed-off to ensure there is no build-up of entrained VOCs in the air stream; (2) extraction well pumps have been lowered and flow rates reduced as required to deal with lowering water tables; (3) the vapor phase carbon bed regeneration cycle was changed from daily to every 72-96 hours as influent air concentrations declined; and (4) groundwater monitoring well purge water is now treated at the IGWTP. A recommendation was made to reduce the "Effectiveness Reports" from an annual basis to once every 5 years, with submittal of relevant information on groundwater capture, volume of water treated, and pounds of VOCs removed in the routine groundwater monitoring progress reports.

**Dr. David Huntley, professor at the San Diego State University, and Robert Frank, Hydrogeologist for CH2M Hill.** Dr. Huntley and Mr. Frank were retained by and represented Keith Bowers of Honeywell. The main issue raised during the interview process concerned the effectiveness of the OU1 extraction wells to contain migration of the groundwater plume beyond

the Old Crosscut Canal. A handout was provided by Dr. Huntley which summarized previous comments he made in the August 7, 2000 letter to ADEQ regarding the potential of OU1 not capturing the entire plume migration (Appendix I). A copy of this handout is provided in Appendix H.

**Bob Atkinson, Director of Health and Safety, ON Semiconductor.** During Mr. Atkinson's interview, he did not identify any issues associated with OU1. He did state that the project (OU1) appeared to be managed appropriately by Motorola.

**Larry Rodriguez, IGWTP Operations Manager, GPI.** Mr. Rodriguez is responsible for the supervision of the O&M of the IGWTP and extraction wells and is very familiar with the operation of OU1. Mr. Rodriguez identified one on-site technician, Leo Wilson, who is responsible for the day to day O&M activities. Excerpts of Mr. Rodriguez's interview responses are as follows. The performance of OU1 appears to be achieving its intended purpose. Significant changes to OU1, that he was aware of, was taking extraction wells DM312 and DM313 off-line because VOC concentrations decreased below the MCLs in these wells. OU1 O&M optimization activities included: (1) replacement of the multiple control valve to a single valve to optimize flow; (2) modification of the relay control to a PLC; and (3) placement of the IGWTP alarm and shutdown system into a paging system that reduced the amount of time required for the technician to be on-site. No major problems have been encountered during the past 5 years and the system has been in continuous operation over 90% of the time. Monitoring optimization activities included elimination of some wells in the monitoring network. In terms of the annual cost of the O&M of the IGWTP, the power usage cost was generally the same as the original cost in the FS. However, labor costs have been reduced due to manpower cutbacks. Mr. Rodriguez had no additional comments or recommendations to improve the operations of OU1.

**Leo Wilson, On-site Technician of OU1, GPI.** Mr. Wilson is responsible for the day to day O&M activities of the IGWTP and extraction wells and is very familiar with all O&M aspects of OU1. Mr. Wilson is on-site 5 days a week (Mon. to Fri.) for 8 hours per day. Excerpts of Mr. Wilson's interview responses are as follows. OU1 appears to be operating well but is a little below its designed capacity. Significant changes made to OU1 and O&M optimization activities, that he was aware of, included: (1) trimming down the impeller size pumps for efficiency; (2) replacement of the solvent recovery separator with a decanting system; and (3) lowering of the pumps in some of

the extraction wells. Except for normal maintenance activities, no major problems have been encountered. Monitoring optimization activities included modification of on-site manual control systems with computerized control systems. Mr. Wilson's recommendation to improve the operations of OU1 was to retrofit the pump controls with variable drives.

**Jim Lemmon, Hydrologist.** Jim Lemmon is an independent hydrologist who was hired by the Gateway TAG as a technical reviewer. Excerpts of his interview responses are as follows. The OU1 remedy is the containment of the plume at the Old Crosscut Canal. The OU1 is effective in containing the plume migration in the alluvium, however, there is not enough data to support that plume migration is being contained in the bedrock. Additional monitoring points need to be established and the model rerun with the additional monitoring points data. The effect that OU1 has had on the surrounding community is positive in that the dewatering of the alluvium has allowed the community to go ahead with their development plans. In addition, Motorola became more active in community participation. However, because the facility was sold to ON Semiconductor, there were some community concerns on how this sell would impact the day to day activities of OU1. Also there are community concerns about the potential total dose exposure from the total manufacturing and remediation standpoint, which Superfund or WQARF does not examine. In terms of comments and recommendations to improve the operations of OU1, Mr. Lemmon stated that the plume containment, or compliance point, should be at the facility boundary instead of the Old Crosscut Canal. Also, further evaluation of the contamination in bedrock was necessary to confirm that OU1 is effective in the bedrock.

**Karen O'Reagan, Director of the Environmental Programs Department, City of Phoenix.** Ms. O'Reagan was the original project manager for EPA overseeing the Motorola site during the time the site was placed on the NPL. She currently is involved with the implementation of OU2 since the city owns a portion of the property associated with Honeywell. Excerpts of her responses to the interview are as follows. OU1 is groundwater containment at the Old Crosscut Canal with a pump and treat system. There was some past controversy about the effectiveness of OU1, but generally the system is effective in removing higher concentrations of VOCs. In terms of community concerns, she understood that there were still issues on the identification of the extent of contamination. There were also concerns regarding health risks associated with all of the changes occurring at the site which may require a revision to the risk assessment. Recently, no community concerns have been made, however, Potentially Responsible Parties (PRPs) are concerned about the

identification of all possible sources in the area. Ms. O'Reagan had no other comments on the effectiveness of OU1. However, she did recommend that Councilman Cody Williams, Jim Lemmon, Steve Brittle, Cynthia Parker, and Calvin Good be interviewed since they have had some history with the implementation of OU1.

**Maria Fant, Community Involvement Unit Manager, ADEQ.** Ms. Fant was the former 52<sup>nd</sup> Street Site Project Manager. Excerpts of her responses to the interview are as follows: OU1 is a pump and treat system. The system is working well as far as she knew and there has not been any complaints or incidents requiring a response by ADEQ. There are no current or planned changes to ADEQ's regulations that could impact the operation of OU1. Ms. Fant was not aware of any current community concerns. Ms. Fant had no other comments or recommendations for OU1, but stated that she felt the remedy was protective and should be incorporated into the final remedy.

**Mason Bolitho, Water Quality Department Manager, ADWR.** Mr. Bolitho was involved in the review of all technical documents and reports for ADWR and issued the PQGWWP to Motorola. He currently reviews all quarterly status PQGWWP reports submitted by Motorola. Excerpts of Mr. Bolitho's responses to the interview are as follows: OU1 is a remedy that involves the removal of groundwater downgradient to the site which is treated for contaminants and reused at the facility. Generally, as an interim remedy, OU1 accomplishes its intended purpose to get as much contamination out of the ground where concentrations are the highest. However, there is one issue on the ability of the system to remediate contamination in the bedrock, which is a continuing source and a complex issue that is difficult to address. Currently, there are no known changes to ADWR's regulations that could impact the operation of OU1. However, Mr. Bolitho did point out that, although unlikely, any private property owner downgradient to the facility could install an exempt well for any type of use that could not be restricted by ADWR. In terms of comments or recommendations to improve the effectiveness of OU1, Mr. Bolitho stated that the final remedy should consider other innovative technologies for the continued remediation of groundwater, especially in bedrock. ADWR always favors remedial technologies for in-situ treatment or reinjection of treated water that would minimize groundwater withdrawals, if appropriate.

**Steve Brittle, Founder of Don't Waste Arizona.** Mr. Brittle was a member of the Gateway TAG during the implementation of OU1. Excerpts of his responses to the interview are as follows. The OU1 remedy is a pump and treat technology. The system seems to be put together pretty well and

operating as intended. There was, however, a past vinyl chloride issue (1992) that was apparently resolved. OU1 has had no effect on the community. In general, most of the community is unaware of the operations of OU1. Currently, Mr. Brittle is not aware of any incidents or community concerns on the operation of OU1. In terms of comments or recommendations to improve the effectiveness of OU1, Mr. Brittle stated that he would be very interested in finding out if there have been any other vinyl chloride issues and if the OU1 system is adequately controlling these emissions. He is also curious to see if there is an updated risk assessment that assesses any changes in exposure scenarios.

**Bill Ruddiman, Remedial Investigations and Hydrology Unit Manager, ADEQ.** Mr. Ruddiman was the former 52<sup>nd</sup> Street Site project hydrologist. Excerpts of his responses to the interview are as follows. OU1 is a source capture remedy. There was initial concern on OU1's capability to capture the contamination in the bedrock. However, after many correspondences with Motorola, it was concluded that the system was capturing the entire plume. During the past five years, he was unaware of any complaints or incidents requiring response by ADEQ. There are no current or planned changes to ADEQ's regulations that could impact the operation of OU1. Mr. Ruddiman was not aware of any current community concerns. In terms of comments and recommendations to improve the effectiveness of OU1, Mr. Ruddiman stated that the final remedy should look at aggressively treating the groundwater contamination sources with newer innovative technologies. Implementation of source treatment could significantly reduce the time necessary to remediate the groundwater.

**Nadia Hollan, Project Manager, EPA Region 9.** Ms. Hollan oversees the O&M activities at OU1. Excerpts of her responses to the interview are as follows. The OU1 remedy is mainly soil clean up and an interim groundwater remediation remedy. OU1 is effective for the contamination in the alluvium. However, there are some concerns of its effectiveness in bedrock. In terms of the soil remediation, there are additional data needed to demonstrate that the systems have achieved their goals. Periodically, there have been inquiries made to EPA on OU1. Specific details could not be remembered, however, the majority of the inquiries were minor issues. The only change to future EPA regulation that may have an impact to OU1 is the proposed amendment to the arsenic MCL. No other opinions were given on the O&M of OU1. In terms of community concerns, EPA has received requests by the community to be kept updated on the operations of OU1 and its effect. In terms of comments and recommendations to improve the effectiveness of OU1, Ms. Hollan stated

that additional data should begin to be collected to evaluate source control as part of the final remedy.

**Cody Williams, City of Phoenix Council Member, District 8.** Mr. Williams is involved with the planning aspects and community relations for this district and tries to keep the community informed on the progress of the clean up of the Motorola 52<sup>nd</sup> Street Site. He also monitors the progress of OU1 to ensure that the community's best interests are accounted for. Excerpts of his responses to the interview are as follows. OU1 is a pump and treat remedy. The remedy is a very ambitious and complex solution that can hopefully achieve the outcomes that have been stated. During the implementation of the project, Motorola and ADEQ kept the Council well informed. Currently, there are no community concerns of the operation of OU1. However, Mr. Williams would like to see a better community notification program that provides periodic (e.g., quarterly, biannually, annually) updates on the performance and subsequent effects that OU1 has had on the contamination.

## **6.2 SITE INSPECTION**

Representatives of ADEQ, HESE, and Motorola took part in a site inspection of OU1 on March 20, 2001. The inspection was lead by Kris Kommalan, Project Manager for ADEQ, and John Kim, Project Manager with HESE. Other inspection team participants included: John Kivett, Project Hydrologist for ADEQ; Dave Peskin, Senior Remediation Engineer for HESE; and Steve Willis, Senior Hydrologist for HESE. The inspection was supported by Tom Suriano, Project Manager for Motorola, and Larry Rodriguez, Operations Supervisor of GPI, who guided the inspection team around the OU1 systems and answered questions from the inspection team. The site inspection was performed using a checklist developed by HESE. The overall completed check list, which incorporates all of the comments made by the individual inspection team members, is provided in Appendix J.

The site inspection involved: (1) conducting interviews with onsite operators; (2) conducting a file review of documents that should be maintained on-site; and (3) visual inspection of applicable systems associated with OU1, including the voluntary groundwater remediation system implemented at the SWPL area and off-site extraction wells at the Old Crosscut Canal. Weather conditions during the inspection were favorable, sunny with high temperatures. No problems were encountered with access to relevant site features inspected.

The site inspection revealed that the treated effluent monitoring plan and the PQGWTP was not available on-site. Other documents not found on-site included the IGWTP effluent monitoring records/data and air emissions data. Records not available at the IGWTP, but available at the ON Semiconductor file room, included: the carbon change out records, waste profiling data, and manifests of the spent carbon and recovered solvents sent off-site for regeneration and recycling, respectively. As mentioned in the Section 9.3.5 of the CO, since site access activities may include inspecting and copying records, operating logs, or other documents to assess Motorola's compliance, all of the documents and data identified above (with the exception of the records kept by ON Semiconductor) should be kept at the IGWTP. In addition, it is recommended that the file storage area of the IGWTP should be better organized so that onsite records can be more easily retrieved.

Evaluation of the annual O&M cost data showed no significant difference of cost incurred during the years of 1996, 1997, and 1998 with the original estimate in the FS. However, the annual costs incurred during 1999 and 2000 were significantly lower than the original estimate. Tom Suriano explained that the 1999 and 2000 costs were lower because starting in 1999, the original estimated schedule of carbon regeneration was reduced due to lower concentrations observed through the IGWTP. This resulted in less manpower and capital expenditures. In addition, manpower labor was further reduced by implementing a paging system to the IGWTP alarm and shut-down system that reduced the amount of time required by the technician to be on-site. This explanation of the lower O&M cost is acceptable.

In general, the OU1 remediation systems were in good condition. However, there were some issues found during the inspection, as follows.

Since ON Semiconductor now owns the facility in which the OU1 remedial systems are housed, HESE inspected the remedial systems to see if adequate barriers were in place to prevent entry of unauthorized ON Semiconductor personnel. This inspection revealed that the perimeter fencing did not completely surround the IGWTP and access gates were not kept locked. In addition, the number of perimeter signs, warning of unauthorized entry, was not sufficient to cover the entire boundary of the IGWTP.

Inspection of the IGWTP system revealed the following issues:

- In general, the secondary containment system provided for the entire IGWTP system had

several areas where the protective coating was cracked, peeling, or lifting up.

- The PVC valve at the Liquid Chlorine Feed system looked brittle due to the UV rays. In addition, the chlorine transfer piping did not have secondary containment.
- The pressure gauge on Air Stripper AS-201 was not functioning.
- Some of the exterior gaskets on the vapor phase GAC units appeared to be dry rotted.

Note: The CO states that the implemented interim remedy is not subject to Resource Conservation and Recovery Act (RCRA) provisions. However, if during implementation of the final remedy, it is determined that RCRA provisions are "relevant and appropriate", the site inspection did notate that all of the tank systems associated with the IGWTP would have to be retrofitted to provide for 24-hour leak detection systems.

Inspection of some of the extraction wells revealed that due to the declining water level, well DM306 was set to run in a cyclic mode, 30-minutes on and 1-hour off. There is a concern that the contaminants may not be adequately captured at this location since the extraction well does not run on a continuous basis. In addition, inspection of some of the monitoring wells revealed that the well vault of MP-11 was full of water.

As mentioned in Section 4.1.2, the site inspection confirmed that no SVE system had been installed to address the vadose zone source contamination in the ATP.

### **6.3 RISK INFORMATION REVIEW**

#### **6.3.1 Applicable or Relevant and Appropriate Requirements (ARARs)**

Section 121 of CERCLA requires, in part, that if any hazardous substances remain on-site at the conclusion of a remedial action under CERCLA, the level, or standard of control, that must be met for hazardous substances remaining on-site is at least that of any applicable or relevant and appropriate requirement, criteria, or limitation under any Federal environmental law, or any more stringent standard, promulgated pursuant to a state environmental statute. These standards of control are termed ARARs. Determination of ARARs is site-specific and depends on the location of the site, remedial actions under consideration, and chemical contaminants of concern.

The National Contingency Plan (40 CFR 300.5; EPA, 1990) defines "applicable" and "relevant and appropriate" as follows:

### **Applicable**

*Applicable requirements means those clean-up standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting laws that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance found at a CERCLA site. Only those state standards that are identified by a state in a timely manner and that are more stringent than federal requirements may be applicable.*

### **Relevant and Appropriate**

*Relevant and appropriate requirements means those clean-up standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting laws that, while not "applicable" to a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstance at a CERCLA site, address problems or situations sufficiently similar to those encountered at the CERCLA site that their use is well suited to the particular site. Only those state standards that are identified in a timely manner and are more stringent than federal requirements may be relevant and appropriate.*

EPA's guidance document entitled "CERCLA Compliance With Other Laws Manual: Interim Final" (EPA/540/G-89/006, EPA, 1988a) sets forth the general procedure for the selection of ARARs and details ARAR selection under several Federal environmental statutes. The guidance provides that *a requirement is applicable if the specific terms (or 'jurisdictional prerequisites') of the law or regulation directly address the circumstances at a site. If not applicable, a requirement may nevertheless be relevant and appropriate if circumstances at the site are, based on best professional judgment, sufficiently similar to the problems or situations regulated by the requirement.* Thus, in order to determine whether a requirement is an ARAR for a particular site, the "applicability" of the requirement must first be analyzed. If the requirement is not "applicable," it must then be determined whether the requirement is "relevant and appropriate" to the circumstances of the site. Unless a waiver can be justified, an on-site remedial action must comply with all ARARs.

The "CERCLA Compliance with Other Laws Manual" divides ARARs into three types: (1) Chemical-specific ARARs; (2) Action-specific ARARs; or (3) Location-specific ARARs. Each are defined as follows:

- **Chemical-specific ARARs** are usually technology- or risk-based numerical limitations or methodologies that, when applied to site-specific conditions, result in the establishment of acceptable concentrations of a chemical that may be found in or discharged to the ambient environment;
- **Action-specific ARARs** are usually technology- or activity-based requirements or limitations on actions taken with respect to hazardous substances. These requirements typically define acceptable treatment, storage, and disposal procedures for hazardous substances during the implementation of the response action; and
- **Location-specific ARARs** are the restrictions placed on the concentration of hazardous substances or the conduct of activities solely because they occur in special locations. These requirements relate to the geographical or physical position of the sites rather than to the nature of the contaminants or the proposed remedial actions.

Chemical-specific ARARs are used to "help determine the remediation goals," while action and location-specific ARARs are considered during the detailed evaluation of the potential remedial alternatives developed for the Study Area.

The ARARs, or regulatory requirements, that were established for OU1 during the signing of the ROD/LOD for the implemented remedies are addressed in the CO dated June 20, 1989, which are identified as follows:

- **Page 1** - Motorola was determined as not being subject to the RCRA provisions.
- **Page 12** - The OU1 is intended to contain and control the migration and level of contaminants in the groundwater.
- **Section 6.3** - Motorola must design, implement, and complete the work in accordance with Titles 45 and 49 of the Arizona Revised Statutes (ARS) and applicable rules and regulations set forth in the Arizona Administrative Code (AAC).
- **Appendix C1.3.1(2) and C1.3.4(2)** - All extracted groundwater shall be treated to meet federal, state, and local standards.
- **Appendix C1.3.1(3)** - Air emissions from the soil gas treatment system shall meet federal, state, and local standards (i.e., 3 lbs/day, Maricopa County).

- **Appendix C1.3.2** - The OU1 shall maintain the "zone of capture" by ensuring that the hydraulic gradient is maintained from the edges of the "zone of capture" to the extraction wells to reduce/eliminate the contaminant migration.
- **Appendix C1.3.3** - The OU is to perform interim cleanup of soil and groundwater contamination while preventing contaminant migration; therefore, no cleanup levels have been established for the aquifer at the Site.
- **Appendix C1.3.4(1)** - All water from the groundwater extraction and treatment systems will be beneficially used at the Motorola 52<sup>nd</sup> Street facility consistent with the Groundwater Code, including area management plans.
- **Appendix C1.3.4(3)** - Treated groundwater effluent shall not exceed 100 ppb of the total concentration of VOCs, if the Total Toxic Organics (TTO's) concentration of the wastewater discharged at the Motorola Facility does not exceed the determined three year average value of 186 ppb. If the average value (186 ppb) is exceeded for three consecutive months, the total concentration of VOCs in the treated groundwater effluent must not exceed 50 ppb, of which there must be less than 5 ppb of TCE.
- **Appendix C1.3.4(4)** - Air stripping towers will be equipped with air emission controls as needed to meet Maricopa County requirements, including Rule 320, Section 302 and any other applicable provisions of the Arizona Implementation Plan under the Clean Air Act (CAA).

As part of this five year review, the OU1 remedies were evaluated to determine continued compliance with the established ARARs. Current standards were also compared with established ARARs to determine if:

- The established ARARs were still protective of human health and the environment when compared to the current standards, and
- The remedy complied with current standards.

#### **6.3.1.1 Issued Permits**

As required in Section 7.1 of the CO, two permits were issued for the operation of OU1: (1) a Poor Quality Groundwater Withdrawal Permit (PQGWWP) No. 59-530577 issued by ADWR; and (2) an Air Quality Permit issued by the Maricopa County Environmental Services Department Air Pollution Control.

The PQGWWP was issued in accordance with ARS 45-516, which allows the withdrawal of poor quality groundwater that has no beneficial use. Consistent with the established ARAR in the CO, the permit required that all extracted groundwater be beneficially used at the facility. Motorola is utilizing the treated groundwater for plant operations and is in compliance with this ARAR.

The Air Quality Permit was issued for the emissions associated with the air strippers and SVE systems under Rule 200, Section 303 of the Maricopa County regulations. This permit provides general conditions on the operation of the air strippers and SVE systems as well as specific emissions allowances for Particulates (TSP), Particulates smaller than 10 Microns (PM10), VOCs, Non-precursor Organic Compounds, Sulfur Oxides (SO<sub>x</sub>), Carbon Monoxide, and Nitrogen Oxides (NO<sub>x</sub>). The emission allowances provide daily and annual emission limits based on system performance information and data supplied during the submittal of the application. OU1 initially was operated under this permit, however, additional emissions data provided by Motorola demonstrated that emissions were so low, a permit was no longer required. Consequently, Maricopa County withdrew the permit for OU1. A copy of this correspondence is provided in Appendix K.

HESE and ADEQ have not identified any other permits under current Titles 45 or 49 of the ARS that would be required for the continued operation of OU1.

#### **6.3.1.2 Chemical-Specific ARARs**

The chemical-specific ARARs discussed in the following sections are summarized in Table 3. Please note that the last column of the Table pertains to the site's current compliance status with the ARARs. Noncompliance with an ARAR does not necessarily mean that OU1 is in noncompliance with the appropriate standard, unless it is an ARAR that was established in the CO.

#### **Current Chemical-Specific ARARs for Contaminated Soils to be Considered at the Final Remedy**

No chemical-specific ARARs for contaminated soils were established in the RAP, LOD, ROD, or CO for the contaminants found within the Courtyard, ATP, and SWPL soils. Consequently, an evaluation of Motorola's compliance with the current chemical-specific ARARs for soil was not conducted.

However, there are ARARs that have been promulgated since the CO was executed and will need to be considered at the final remedy. In December 1997, ADEQ promulgated remediation standards

(R18-7-203) that allows the clean up of contaminated soil to: (1) background levels (R18-7-204); (2) pre-determined remediation standards (R18-7-205); or (3) site-specific remediation standards (R18-7-206). These standards are considered the current standards applicable to all soil clean-up activities conducted in the State of Arizona. Remediation background standards must be determined by: (1) site-specific historical land use information; (2) sampling of non-impacted soil that has the same characteristics of the impacted soil; and (3) statistical analysis of background concentrations using the upper 95th percentile upper confidence limit. Pre-determined remediation standards are ADEQ established soil remediation levels (SRLs) that lists a variety of organic and inorganic constituents with respective clean up levels which address both residential and non-residential exposure levels. The SRLs are statewide clean up levels and applies to all environmental regulatory programs administered by ADEQ. Based on the current and future use restriction of the site, non-residential SRLs would apply to any contaminants found within the vadose zone of the Courtyard, ATP, and SWPL. Site-specific remediation standards are derived from site-specific human health risk assessment performed at the site.

All three remediation standards are applicable to the contaminants found within the vadose zone of each source area. However, if it is determined that the remediation level(s) is not protective of aquifer water quality, alternate groundwater protection levels (GPLs) must be established using the 1996 Leachability Work Group guidance document. Because certain COCs in the vadose zone at the Motorola 52<sup>nd</sup> Street Site has leached into and impacted the groundwater, there is a possibility that calculated GPLs may be more stringent than the SRLs. If ADEQ remediation standards are not established for particular compounds, use of ADEQ's Health Based Guidance Levels (HBGLs) would be relevant and appropriate. If HBGLs are not available, EPA Region IX preliminary remediation goals (PRGs) for industrial soils would then be relevant and appropriate.

The following table provides the appropriate current chemical-specific soil action ARARs for the contaminants of concern identified in the RI and 1988 Health Assessment for the Motorola 52<sup>nd</sup> Street Facility.

### Current Chemical-Specific Soil Remediation ARARs

| Contaminants of Concern  | Soil Action Levels<br>(mg/kg) | ARAR Source  |
|--|-------------------------------|--------------|
| 1,1,1-Trichloroethane (TCA)  | 4800                          | ADEQ NR SRLs |
| 1,1,2-Trichloroethane (TCA2)   | 15                            | ADEQ NR SRLs |
| Trichloroethene (TCE)  | 70                            | ADEQ NR SRLs |
| Tetrachloroethene (PCE)  | 170                           | ADEQ NR SRLs |
| Trichlorotrifluoroethane (F-113)   | 3,500,000                     | ADEQ HBGLs   |
| trans-1,2-Dichloroethene (t-1,2-DCE)   | 270                           | ADEQ NR SRLs |
| cis-1,2-Dichloroethene (c-1,2-DCE)   | 100                           | ADEQ NR SRLs |
| 1,1-Dichloroethane (DCA)   | 1700                          | ADEQ NR SRLs |
| 1,1-Dichloroethene (DCE)   | 0.8                           | ADEQ NR SRLs |
| 1,2-Dichloroethane (1,2-DCA)   | 5.5                           | ADEQ NR SRLs |
| 1,1,2,2-Tetrachloroethane (TET)  | 11                            | ADEQ NR SRLs |
| Vinyl Chloride (VC)  | 0.035                         | ADEQ NR SRLs |
| Benzene  | 1.4                           | ADEQ NR SRLs |
| Toluene  | 2700                          | ADEQ NR SRLs |
| Ethylbenzene   | 2700                          | ADEQ NR SRLs |
| Methylene Chloride   | 180                           | ADEQ NR SRLs |
| Bromodichloromethane   | 14                            | ADEQ NR SRLs |
| Chlorobenzene  | 220                           | ADEQ NR SRLs |
| Chloroform   | 5.3                           | ADEQ NR SRLs |
| Carbon Tetrachloride   | 5                             | ADEQ NR SRLs |
| Arsenic  | 10                            | ADEQ NR SRLs |
| Boron  | 61,000                        | ADEQ NR SRLs |
| Lead   | 2000                          | ADEQ NR SRLs |
| Nitrate  | 1,000,000                     | ADEQ NR SRLs |
| Thallium   | 140 <sup>(1)</sup>            | ADEQ NR SRLs |
| Notes:<br>ADEQ - Arizona Department of Environmental Quality<br>HBGLs- Health Based Guidance Levels<br>NR - Non-Residential<br>SRLs - Soil Remediation Levels<br><sup>(1)</sup> Soil action level for Thallium was not available; action level<br>for Thallium Carbonate was used. |                               |              |

Review of the RI soil data indicated that the former dry well (Source 2, Figure 5), within the Courtyard, had elevated levels of TCE, Carbon Tetrachloride, and DCE that exceeded their respective current nonresidential (NR) SRLs. Source 22, within the ATP, did not show any detected VOCs exceeding the current NR SRLs.

Comparing the SWPL RI soil boring data with current NR SRLs indicated that all of the VOCs that exceeded the current soil standards were found in samples collected at the groundwater table in Source 18 (Figure 5). Soil samples collected from the bottom of the waste sump in Building A-D showed high concentrations of 1,1-DCE and TCA that exceeded the NR SRL. The soil boring samples collected from Sources SV-1 and SV-2 contained matrix interferences that resulted in very high detection limits that exceeded the NR SRLs for many of the compounds. Consequently, presence or absence of these compounds could not be determined.

Note: There was an error in the SWPL RI report regarding the unit of the soil concentrations. In Tables F.4 and F.5, the soil sample results were reported in  $\mu\text{g}/\text{mg}$ . In converting this unit to  $\text{mg}/\text{kg}$ , the concentration must be multiplied by 1000. However, section 4.2.3 of the report references the same concentrations found in Tables F.4 and F.5 as  $\text{mg}/\text{kg}$  without the necessary conversion factor. Conversations with Clear Creek (Motorola's Consultant) revealed that the units in Tables F.4 and F.5 should be in  $\text{mg}/\text{kg}$ .

Post remediation confirmatory soil samples were not collected in the Courtyard and SWPL areas. Therefore, an evaluation of any remaining VOC concentrations to current soil standards could not be performed.

As a recommendation, ADEQ should consider incorporating the current soil clean-up standards in the final ROD and CO during the implementation of the final remedy. This would include incorporating the GPLs (to be determined by Motorola) if these concentrations are more stringent than the SRLs.

**Current Chemical-Specific ARARs for Contaminated Groundwater to be Considered at the Final Remedy**

Appendix C1.3.3 of the CO states that OU1 is an interim remedy and therefore, clean up levels were not established for the aquifer at the Site. Consequently, an evaluation of Motorola's compliance with the current chemical-specific ARARs groundwater was not conducted.

The Aquifer Water Quality Standards (AWQSs) addressed in AAC Title 18, Chapter 11, Article 4, should be considered an ARAR when implementing the final remedy. The AWQSs provide numeric standards for drinking water protected use which are applicable to all groundwater remediation activities conducted in the State of Arizona. This standard would also be applicable to the final remedy implemented at the Motorola 52<sup>nd</sup> Street Site. Other current numeric standards that are relevant or appropriate to the final remedy include: the maximum contaminant levels (MCLs) and national revised primary drinking water regulations MCLs in 40 CFR Part 141, Subparts B and G; ADEQ HBGLs; EPA Region IX PRGs for tap water; and secondary MCLs. These relevant and appropriate standards should be used when numeric AWQSs have not been established for a particular compound in the following priority: (1) MCLs; (2) ADEQ HBGLs; (3) PRGs; and (4) Secondary MCLs.

The following table provides the appropriate current chemical-specific groundwater action ARARs for the contaminants of concern identified in the RI and 1988 Health Assessment for the Motorola 52<sup>nd</sup> Street Site.

**Current Chemical-Specific Groundwater Remediation ARARs**

| Contaminants of Concern  | Groundwater Action Levels ( $\mu\text{g/L}$ ) | ARAR Source |
|--|---|-------------|
| 1,1,1-Trichloroethane (1,1,1-TCA)  | 200   | ADEQ AWQSs  |
| Trichloroethene (TCE)  | 5   | ADEQ AWQSs  |
| Tetrachloroethene (PCE)  | 5   | ADEQ AWQSs  |
| trans-1,2-Dichloroethene (t-1,2-DCE)   | 100   | ADEQ AWQSs  |
| cis-1,2-Dichloroethene (c-1,2-DCE)   | 70  | ADEQ AWQSs  |
| 1,1-Dichloroethane (1,1-DCA)   | 810   | EPA PRGs    |
| 1,1-Dichloroethene (1,1-DCE)   | 7   | ADEQ AWQSs  |
| 1,2-Dichloroethane (1,2-DCA)   | 5   | ADEQ AWQSs  |
| Vinyl Chloride (VC)  | 2   | ADEQ AWQSs  |
| Benzene  | 5   | ADEQ AWQSs  |
| Bromodichloromethane + Chloroform  | 100   | ADEQ AWQSs  |
| Chlorobenzene  | 140   | ADEQ HBGLs  |
| Arsenic  | 50  | ADEQ AWQSs  |
| Boron  | 630   | ADEQ HBGLs  |
| Fluoride   | 4000  | ADEQ AWQSs  |
| Lead   | 50  | ADEQ AWQSs  |
| Nitrate  | 10,000  | ADEQ AWQSs  |
| Sulfate  | 400,000                                       | ADEQ HBGLs  |
| Thallium   | 2   | ADEQ AWQSs  |
| Notes:<br>ADEQ - Arizona Department of Environmental Quality<br>AWQSs - Aquifer Water Quality Standards<br>EPA - Environmental Protection Agency<br>HBGLs - Health Based Guidance Levels<br>PRGs - Preliminary Remediation Goals |   |             |

Current groundwater conditions within the Site have shown that many of the contaminants of concern (especially the VOCs) are above their respective current chemical-specific ARAR at on-site and off-site wells. These findings do not represent a deficiency of the effectiveness of OU1 since groundwater clean up standards were not established in the CO. However, it is recommended that during the implementation of the final remedy, ADEQ should consider incorporating the current groundwater clean-up standards in the final ROD and CO.

**Previously Established and Current Chemical-Specific ARARs for Extracted Groundwater Treatment and Use**

Appendix C1.3.1(2) and C1.3.4(2) of the CO states that all extracted groundwater shall be treated to meet federal, state, and local standards. In addition, Appendix C1.3.4(3) of the CO states that the treated groundwater effluent must not exceed 100 ppb of the total concentration of VOCs, if the Total Toxic Organics (TTO's) concentration of the wastewater discharged at the Motorola Facility does not exceed 186 ppb. If the TTO's average value is exceeded for three consecutive months, the total concentration of VOCs in the treated groundwater effluent must not exceed 50 ppb, of which there must be less than 5 ppb of TCE. These are the established chemical-specific ARARs for the extracted groundwater treatment and use for OU1. Motorola, is currently in compliance with these standards.

The treated groundwater (effluent) is beneficially used at the facility before being discharged with other normal process wastewaters to the City of Phoenix sanitary sewers. No Federal, State, or local pretreatment standards are directly applicable to the treated groundwater. However, because the quality of the effluent being used could have an overall impact to process wastewater discharged at the facility, effluent use limitations were set in Appendix C1.3.4(3) of the CO for total VOCs and TCE based on the concentration of TTO in the overall facility discharge. These use limitations were based on the evaluation of Federal and local pretreatment limitations for "Semiconductor Subcategories" which set pretreatment limits of TTO of plant discharges to publicly owned treatment works (POTW). The current Federal pretreatment standard for TTO found in 40 CFR Part 469.16 specifies that the maximum daily limitation for TTO is 1370  $\mu\text{g/L}$ . This standard is less stringent than the limitations set in the CO. Motorola's treated effluent is in compliance with the pretreatment limitations. Since current standards are less stringent than the previously established standards, no further action is required to incorporate the current standard in the final remedy ROD and CO.

**Previously Established and Current Chemical-Specific ARARs for Air Emissions**

The IGWTP was initially operated under an Air Emissions Permit issued by the Maricopa County Environmental Services Department (MCESD) under Rule 200, Section 303 of the Maricopa County regulations as required by the CO. This permit was eventually withdrawn by MCESD after Motorola demonstrated that the emissions were so low, a permit was no longer required (See Appendix K). Motorola conducts daily stack air emissions sampling of the IGWTP. Data provided by Motorola has shown that the emissions are below Maricopa County's VOC limitation of 3 lbs/day. Based on these findings, Motorola continues to comply with the previously established CO ARARs.

There were no current chemical-specific ARARs for air emissions identified to be considered in the final remedy.

**6.3.1.3 Action Specific ARARs**

The action specific ARARs established in the CO are as follows:

- **Section 6.3** - Motorola must design, implement, and complete the work in accordance with Titles 45 and 49 of the ARS and applicable rules and regulations set forth in the AAC. As stated in Page 1 of the CO, RCRA provisions do not apply to OU1.
- **Appendix C1.3.2** - The OU1 shall maintain the "zone of capture" by ensuring that the hydraulic gradient is maintained from the edges of the "zone of capture" to the extraction wells to reduce/eliminate the contaminant migration.
- **Appendix C1.3.4(1)** - All water from the groundwater extraction and treatment systems will be beneficially used at the Motorola 52<sup>nd</sup> Street facility consistent with the Groundwater Code, including area management plans.
- **Appendix C1.3.4(4)** - Air stripping towers will be equipped with air emission controls as needed to meet Maricopa County requirements, including Rule 320, Section 302 and any other applicable provisions of the Arizona Implementation Plan under the CAA.

The following sections provide the results of the evaluation of established action-specific ARARs in the CO and identification of current or new ARARs to be considered in the final remedy. Table 4 provides a summary of the evaluation.

**Evaluation of the Established Action-Specific ARAR Identified in Section 6.3 of the CO**

This established ARAR required Motorola to design, implement, and complete OU1 in accordance with Titles 45 and 49 of the ARS and applicable rules and regulations set forth in the AAC.

The following action-specific standards applicable at the time that OU1 was designed and constructed were:

- Specific control requirements required by Maricopa County for the issuance of the air permit, Rule 200, Section 303;
- Design and construction requirements of the groundwater extraction and monitoring wells by ADWR, AAC Title 45, Chapter 2, Article 10; and
- Construction permits and right of way acquisitions.

Review of appropriate design plans, issued permits, and well installation logs submitted confirmed that the interim remedy was, and still is, in compliance with the above requirements.

The following action-specific standards applicable for the operation of OU1 were:

- Requirements for obtaining a PQGWWP in accordance with ARS 45-516 to conform with area groundwater management plans; and
- Requirements for off-site management of recovered solvents and spent carbon generated from the groundwater treatment operations at the IGWTP, 40 CFR Part 262.

The operation of OU1 is in compliance with the PQGWWP. Review of manifests provided by Motorola confirms that the recovered solvent and spent carbon are managed appropriately as RCRA hazardous wastes in accordance with the "Standards Applicable to Generator of Hazardous Waste" in 40 CFR Part 262.

**Evaluation of the Established Action-Specific ARAR Identified in Appendix C1.3.2 of the CO**

This established ARAR required that OU1 maintain a "zone of capture" by ensuring that the hydraulic gradient is maintained from the edges of the "zone of capture" to the extraction wells to reduce/eliminate the contaminant migration.

Review of groundwater data provided by Motorola indicates that a "zone of capture" is being maintained within the alluvium, however, insufficient data exists to make the same conclusion within the bedrock. Further details to these findings are provided in Sections 7 and 8.

**Evaluation of the Established Action-Specific ARAR Identified in Appendix C1.3.4(1) of the CO**

This established ARAR required that all water from the OU1 groundwater extraction and treatment system be beneficially used at the Motorola 52<sup>nd</sup> Street facility consistent with the Groundwater Code including area management plans.

Review of the operations of OU1, as verified in the site inspection, has shown that all of the treated water is being reused within the ON Semiconductor plant.

**Evaluation of the Established Action-Specific ARARs Identified in Appendix C1.3.4(4) of the CO**

This established ARAR required that the OU1 air stripping towers be equipped with air emission controls as needed to meet Maricopa County requirements, including Rule 320, Section 302 and any other applicable provisions of the Arizona Implementation Plan under the CAA.

Review of the air stripping towers design plan, as verified in the site inspection, has shown that these systems are in compliance with the established ARAR.

**Current Action-Specific ARARs to be Considered for the Final Remedy**

In evaluating the current ARARs to be considered for the final remedy, HESE first evaluated the type of groundwater contaminants that were released into the groundwater. Based on the properties of the compounds, HESE next determined which set or sets of regulations best addressed the design and operation of the final remedy. The groundwater contamination was caused by past disposal practices of spent solvents and the release of TCA from an underground product tank. Because spent solvents and virgin solvents were involved, HESE determined that standards for the design and operation of a hazardous waste treatment and storage facility under RCRA would best address the design and operation of the final remedy.

In determining if the RCRA requirements would be directly applicable to the final remedy or just relevant and appropriate, HESE examined characteristics of the released material and the timeframe of the disposal/release. In terms of the spent solvents historically disposed at the site, HESE determined that the released spent solvents would have likely been classified as F listed hazardous waste under 40 CRF 261.31 and/or potentially classified as Toxicity Characteristic (TC) hazardous waste under 40 CFR 261.24 due to the presence of TCE, PCE, and/or DCE above the TC concentration threshold. Consequently, based on the mixture rule, the recovered groundwater contaminated with the F listed hazardous waste would have carried the same classification when

extracted from the ground. The documented disposal practices of the spent solvents occurred prior to the enactment of RCRA (1976) and therefore, the extracted groundwater cannot be classified as an F listed hazardous waste. However, the extracted groundwater would be classified as a TC hazardous waste if applicable contaminants in the groundwater exceeded the respective TC threshold. This classification would carry through until such a point where the waste is treated below the TC threshold level. The virgin TCA, which was released after the enactment of RCRA, is not on the "U" or "P" hazardous waste list of commercial chemical products that are released or disposed. Based on these findings, unless the extracted groundwater is characteristically a hazardous waste, the action-specific RCRA design and operating standards could be considered relevant and appropriate to the final remedy. Other identified action-specific regulations that may be relevant and appropriate to the final remedy pertain to the control of air emissions for units, as follows:

- AAC Title 18, Chapter 2, R18-3-730 : Standards of Performance for Unclassified Sources;
- 40 CFR Part 60, Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels;
- 40 CFR Part 61, Subpart V: National Emission Standard for Equipment Leaks;
- Regulation III , Section 320 (Maricopa County): Odors and Gaseous Air Contaminants; and
- Regulation III, Section 330 (Maricopa County): Volatile Organic Compounds.

A detailed review of these other potentially relevant and appropriate regulations was not conducted because the RCRA standards best provide design standards to the final remedy and addresses both waste management issues as well as air emissions control issues.

The RCRA requirements that may dictate the design and operation of the final remedy are found in 40 CFR 264, "Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities". Subpart J of these requirements provides the design and operation requirements for tank systems that treat and store hazardous wastes which is applicable to all of the tanks, vessels, and air strippers, and associated piping at the IGWTP as follows:

- 40 CFR 264.192 - Provides the requirements for the design and installation of a tank system or component, and requires that: (1) the tank system be compatible with the material being stored or treated; (2) the tank system be tested to ensure the system has sufficient structural integrity for the material being stored; (3) a corrosion assessment be performed on the tank system; and (4) the tank system's foundation be evaluated to ensure that it can withstand the load of a full tank system.
- 40 CFR 264.193 - Provides the requirements for containment and detection of releases from

tank systems by the installation of a secondary containment system that prevents any releases to soil, groundwater, or surface water, and installation of a leak-detection system that will detect the failure of either the primary tank system or secondary containment system within 24-hours. The remaining sections of this regulation provides specific guidelines on the design of the secondary containment and leak-detection system.

- 40 CFR 264.194 - Provides general operating requirements for the tank systems.
- 40 CFR 264.195 - Provides inspection requirements for the tank systems which requires that the system be inspected on a daily basis for leaks, system deterioration and corrosion, operation of leak detection equipment, inspection of cathodic protection systems (if applicable), and deterioration of the secondary containment system.
- 40 CFR 264.196 - Provides requirements for responding to leaks or spills from a tank system.
- 40 CFR 264.200- Provides requirements for the control of vapor emissions from the tank system which is addressed in 40 CFR Part 264, Subparts AA, BB, and CC.
- 40 CFR 264, Subpart AA - Provides requirements for the design and operation to control air emission from process vents connected to tanks, air strippers, and other vessels at the IGWTP. The specific requirements of this Subpart addresses: process vents; closed-vent systems and control devices; emissions test methods and procedures; record keeping requirements; and reporting requirements.
- 40 CFR 264, Subpart BB - Provides air emission control requirements for equipment leaks which applies to all pumps, compressors, connections and valves at the IGWTP.
- 40 CFR 264.1084 (in Subpart CC) - Provides air emission control standards applicable to all tanks and vessels in the IGWTP.

Inspection of the IGWTP showed that generally all of the tank standards were being met. However, the tank systems in which the entire bottom cannot be inspected did not have the leak-detection system installed. In addition, the blending tanks and associated piping, which collects the treated effluent prior to use in the facility, did not have a secondary containment system and leak detection system. The installation of air emission control systems on the blending tanks was not an issue, since the treated effluent did not contain VOCs. Since RCRA provisions were not applicable to OU1, these findings do not represent deficiencies. It is merely provided in this report to provide information on what may need to be done in the future if the final remedy establishes the RCRA standards as ARARs.

#### **6.3.1.4 Location-Specific ARARs**

Except for Attainment Area Classification and Air Quality Standards identified in Regulation V, Sections 500 and 510 (Maricopa County) which were determined not to be applicable or relevant and appropriate to OU1, no other current location-specific ARARs were identified.

#### **6.3.2 Evaluation of Toxicity Values**

The toxicity values that were provided in the November 1992, Baseline Risk Assessment were used to complete the evaluation since they were not provided in the 1988 ATSDR Health Assessment. Both assessments included the same COCs. It was concluded that there was no-significant-impact on the risk assessment results for human health. The additional contributions to risk/hazard for the changes in the toxicity values and for the new toxicity values were found to be *de minimis* and are described in detail in Table 5. These results are based on the acceptability of pathways chosen for the conceptual model of human exposure associated with the site. Analysis of toxicity value changes for impact on the risk assessment and associated decision making is also listed for each chemical in the Table 5.

#### **6.3.3 Confirmation of Risk Assessment Methodology**

No risk assessment methodology was described in the 1988 report. However, the 1992 risk assessment methodology used was based on the EPA "Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual: Part A (1989). The current methodology for risk assessments has not changed from the 1992 Baseline Risk Assessment.

#### **6.3.4 Inconsistencies in the Risk Assessment**

There were no inconsistencies observed when comparing the 1992 Baseline Risk Assessment to current requirements.

#### **6.3.5 Risk Assessment Update Due to Site Changes**

On-site and off-site usage assumptions described in the 1988 and 1992 report have not changed. Review of the activities completed for OU1 indicated that current changes (i.e., reduction) in concentrations in soil and groundwater occurred in areas of potential exposure. The decrease in contaminant concentrations reduces risk. Nevertheless, the 1992 Baseline Risk Assessment should be updated to assess these new site conditions prior to the selection of the final remedy. Reduction in risk would play an important role in the nature and type of the final remedy that is selected.

## **7.0 TECHNICAL REVIEW**

As part of this five-year review, a technical evaluation was conducted to determine the adequacy of OU1 in meeting the ROs (Section 4.1). In conducting this evaluation, HESE's and ADEQ's geologists and engineers: (1) assessed the groundwater data from 1995 through 2000 to verify that OU1 is reducing the contaminants at the source and containing the contaminant plume at the OCC; (2) reviewed the bedrock capture model (Appendix E) conducted by Motorola to determine if appropriate parameters and data was used for the model simulations; (3) reviewed the correspondence provided by Honeywell and Motorola (Appendix I) regarding the effectiveness of OU1 to determine if there was some valid issues associated with OU1 capability to capture the plume at the OCC; and (4) reviewed assorted documents associated with the completion of the SVE remedial activities at the Courtyard and SWPL areas to determine if these remedies have been completed in accordance the ROs. The results of this review are presented in the following sections.

### **7.1 GROUNDWATER DATA REVIEW**

The groundwater monitoring program that is conducted by Motorola includes the network of wells identified in the *Groundwater Monitoring Plan, 52<sup>nd</sup> Street Superfund Site, Operable Unit No. 1 Area*, prepared by Dames & Moore, dated January 1998. These monitor wells are used to monitor the alluvium and bedrock upgradient, downgradient, and cross-gradient from the site. The locations of these wells are shown in Figures 3, 4, and 7. Groundwater samples collected from the network of wells are analyzed for Purgeable Halocarbon and Aromatic VOCs as well as selected inorganic constituents. The summary of detected compounds during this five-year review period are presented in Table 6. In addition, Appendix L presents graphic depictions of the trends of TCE concentrations from 1995 through 2000 for selected wells. Hydrographs of groundwater elevations for selected wells from 1995 through 2000 are provided in Appendix M.

Review of Table 6 indicates that the main compounds that are detected most frequently in the well network, that exceed their respective MCLs, are: TCE; PCE; 1,1-DCE; cis1,2-DCE; VC; and TCA, with TCE being the compound detected most frequently. Since the CO did not establish groundwater cleanup ARARs, the observed exceedance of the current groundwater standards of any compound in any well used to monitor OU1 was not recognized as a deficiency in this report. Since the interim remedy was primarily implemented to reduce the concentration of contamination at the source and to capture the migrating plume at the Old Crosscut Canal, this data review evaluated the trend in groundwater concentrations in key areas on and off the site. In addition, the monitoring

wells installed to verify that the plume was being contained at the Old Crosscut Canal were evaluated to determine if any COCs exceeded current groundwater standards.

The data review identified the following eight areas and/or items that required a more in depth analysis: (1) the source area; (2) the area immediately downgradient from the Courtyard; (3) the Old Cross Cut Canal extraction wells; (4) the area downgradient from the Old Cross Cut Canal, but within the zone of capture; (5) the area downgradient from the zone of capture; (6) the northern edge of the plume between the source area and the zone of capture; (7) an assessment of vinyl chloride within OU1; and (8) Bedrock capture. The data reviewed for these areas/items are discussed below. Section 8.0 includes an analysis of these data.

(1) The Source Area

The wells at the Courtyard continue to show high concentrations of TCE as well as: 1,1,1-TCA; PCE; 1,1-DCE; VC; and cis1,2-DCE. In addition, the wells at the SWPL area continue to show high concentrations of TCE, PCE, and 1,1-DCE.

Evaluation of the extraction and groundwater wells within and downgradient from the Courtyard area generally showed a decreasing TCE trend. The TCE trends in the extraction wells DM301 and DM304 were relatively stable, showing no increasing or decreasing trend.

(2) The Area Immediately Downgradient from the Courtyard

Review of the TCE data from Westbay well DM606, located between the Old Crosscut Canal and the Facility Boundary, indicated TCE concentrations consistently above the MCL at the 102 ft. to 330 ft. sampling ports, with the highest concentrations in the 185 ft. and 250 ft. bedrock ports. TCE was not detected above the MCL at the 370 ft. depth.

(3) The Old Crosscut Canal Extraction Wells

Evaluation of the TCE trends in the extraction wells in the Old Crosscut Canal showed increasing TCE trends in wells DM305, DM306 and DM307. Wells DM308 through DM311 all showed decreasing TCE trends. The remaining extraction wells (DM312 and DM313), which were shut down because VOC concentrations decreased to below the MCLs, showed an increasing TCE trend in both wells. The TCE concentration in well DM313 actually exceeded the MCL in the December 2000 sampling event.

(4) The Area Downgradient from the Old Cross Cut Canal but Within the Zone of Capture

Review of the data collected from monitoring wells DM602 through DM605 indicated:

- DM602 (alluvial/bedrock interface): TCE concentrations were consistently below the MCL.
- DM603 (Westbay): TCE concentrations exceeding the MCL have been consistently detected in all the ports, with the highest concentrations in the 170 ft. port (bedrock).
- DM604 (alluvial/bedrock interface): TCE concentrations have been somewhat variable within the 5 to 10 ppb range.
- DM605 (Westbay): TCE has been consistently detected above the MCL in the 68 ft. and 170 ft. ports.
- All of the above wells (and ports) indicated a decreasing TCE trend *except for* the 170 ft. ports of DM603 and DM605. Both of these bedrock ports indicate a slightly increasing TCE concentration trend.

(5) The Area Downgradient from the Zone of Capture

Review of the data collected from the downgradient groundwater monitoring wells (DM118, DM119, DM120, DM122, DM123, DM502, and DM503) indicated the following:

- DM118 (alluvium): TCE was below the MCL;
- DM119 (Westbay): TCE was below the MCL;
- DM120 (alluvium): TCE concentrations from 1995 to 2000 were above the MCL;
- DM122A (alluvium): The well was last sampled in October 1993; 1.6 ppb of TCE;
- DM122B (alluvium/bedrock): TCE was consistently below the MCL (non-detect) since 1991;
- DM123 (Westbay): TCE was non-detect in all ports in 1992. Only the 135 ft. port was sampled in the last five years (November 1997); TCE was non-detect;
- DM502 (Westbay): The highest TCE concentrations occurred in the 79 ft. and 119 ft. ports (alluvium and alluvium/bedrock, respectively) at approximately 10 ppb each. Note: an anomalous TCE spike (380 ppb) was detected in April 2001. A follow-up sample collected in May 2001 detected TCE at 8.4 ppb, consistent with historic data. TCE was below the MCL in samples collected from the deeper Westbay ports (161 ft., 240 ft., and 305 ft.);
- DM503 (alluvium/bedrock): TCE has been decreasing; recent TCE non-detect (December 2000);
- TCE in all of the downgradient monitor wells/ports was either non-detect or decreasing.

(6) The Northern Edge of the Plume Between the Source Area and the Zone of Capture

Westbay well DM125 showed TCE concentrations consistently exceeding the MCL at the 125 ft. to 155 ft. sampling depths, with the highest concentrations at the 125 ft. port. TCE was not detected above the MCL at the 270 foot depth. Due to the high concentration of TCE present in well DM125, ADEQ examined the TCE concentrations in well EW18 located further north-northwest of DM125. Results of this review confirmed the presence of TCE in EW18 at concentrations that consistently exceeded the MCL.

Evaluation of the TCE trends in the northern wells indicated slightly increasing trends in both EW18 and DM125 (155 ft. sampled depth).

(7) An Assessment of Vinyl Chloride Within OU1

- DM606 (Westbay): VC was consistently detected above the MCL in sample ports from 102 ft. to 370 ft. The 185 ft. and 250 ft. ports indicated the highest TCE concentrations.
- DM125 (Westbay): VC was consistently detected above the MCL in the 270 ft. sample port.

(8) Bedrock Capture

Groundwater elevation and groundwater quality data were reviewed to assess the capture of contaminants in bedrock. Vertical gradients in each OU1 multiport/Westbay well were reviewed. Depth to water with respect to the depth of the alluvium/bedrock interface was reviewed for OU1 wells. Contaminant concentration data (focused on TCE) trends of samples collected from multiport/Westbay wells were also reviewed.

- The data indicated that groundwater levels in several OU1 wells have dropped near or below the alluvium/bedrock interface (e.g., DM107, DM111, DM112, DM115, DM123, DM305, DM306, DM311, DM312, DM313, DM503, and DM605).
- The data indicated that downward vertical gradients exist at DM125 and DM606. Slight downward vertical gradients were also indicated by data from MP11 and MP25.
- The data indicated that some bedrock concentrations are increasing in the shallow bedrock (e.g., DM603 and DM605)
- Motorola submitted a Capture Analysis in the 1994 Effectiveness Report (see Appendix E *Interpretation and Use of hydraulic Head Data for Definition of the Capture Zone*). This Capture Analysis was also reviewed with respect to bedrock capture.

Note: The SWPL Area

Evaluation of some of the extraction and groundwater well data within and downgradient from the SWPL area (DM705, DM714, DM724, DM725, and DM733) all showed, with the exception of well DM705, a decreasing TCE trend. The TCE trend in well DM705 was relatively consistent.

## **7.2 REVIEW OF HONEYWELL/MOTOROLA CORRESPONDENCE REGARDING OU1 REMEDY**

ADEQ reviewed the documents submitted by Honeywell and Motorola's response to Honeywell regarding OU1 effectiveness.

On August 7, 2000, a letter was provided to ADEQ by Honeywell (Appendix I) that presented the results of a review of OU1 performed by Dr. David Huntley, Professor of Geological Sciences at San Diego State University. This review focused on the effectiveness of the off-site line of wells (DM305 through DM313). The letter concludes that the body of evidence as a whole suggests that it is likely that the Motorola 52<sup>nd</sup> Street facility will continue to be an on-going source for at least some contamination west of the capture zone created by the line of extraction wells. Honeywell's argument is based on a theoretical analysis of the remedy using the initial data collected from the site and comparing it to the current site conditions (i.e. performing analyses using high transmissivity values and making recommendations for additional extraction wells and monitoring wells using the initial site data).

On June 18, 2001, Motorola provided a written response to Honeywell's comments on the effectiveness of the OU1 capture wells (Appendix I). Motorola's letter concluded that if OU1 were not effective in capturing the sources from the 52<sup>nd</sup> Street facility, there should be evidence of steady or increasing VOC concentrations downgradient from OU1. Concentrations of VOCs in the alluvium at DM602, DM603, DM604 and DM605, all located west of the OU1 extraction wells but inside the capture zone, have continued to fall with the highest concentrations recently measured at less than 10 µg/L. Monitoring well DM120 is located directly downgradient from the OU1 system and historically had TCE concentrations at approximately 600 ppb and higher. The TCE concentrations in this monitoring well have continually decreased with time after the OU1 system was turned on in 1992. Recently, the TCE concentrations in DM120 have been less than the MCL. Motorola believes that these results clearly demonstrate the overall success of the OU1 system. Motorola's rebuttal also states that Honeywell's analysis is not accurate because of the changes in site conditions over the years (i.e., lower groundwater table). Motorola further states that the

current methodology of the capture analysis is accurate based upon the interpretation of all the data collected at the site and is consistent with modeling performed in 1995.

### **7.3 GROUNDWATER MODELING REVIEW**

ADEQ conducted a review of the *Interpretation and Use of Hydraulic Head Data for Definition of the Capture Zone* (Capture Analysis) provided in the April 1995, *OUI Effectiveness Report, 1994*. The model is provided in Appendix E.

The Capture Analysis focuses on interpretation of hydraulic head data to determine hydraulic capture. The main sections of the document are: discussions of the alluvial aquifer and fractured bedrock systems, a numeric model simulation of OU1, and analysis of hydraulic head data and hydraulic capture. Horizontal and vertical gradient (both before and during pumping) data were used in the Capture Analysis. A three-dimensional TARGET 3DS finite-difference code was used to construct a model to simulate the OU1 system. The model was designed to simulate the two layer system (alluvium and bedrock) at the site. Two model simulations were included: one with isotropic bedrock permeability, another with anisotropic bedrock permeability. According to the Capture Analysis, the model is not intended to account for the full detail of the site, but to improve understanding of capture in the alluvial aquifer and fractured bedrock systems at OU1.

ADEQ's assessment of the Capture Analysis and associated numeric model is discussed in Section 8.3.

### **7.4 SVE REMEDIAL COMPLETION EVALUATION**

ADEQ reviewed Motorola's SVE evaluation reports and requests for a NFA determination for the Courtyard and SWPL SVE treatment systems. ADEQ determined that additional information was required from Motorola to complete this evaluation. Please refer to Appendix F for details. Since a five year review is not the appropriate method for evaluating a soils closure, the NFA will not be determined as part of this review. However, ADEQ will continue to evaluate the soils issues identified in Section 9.0 of this report which will aid in determining Motorola's NFA requests.

## 8.0 ASSESSMENT

The following conclusions support the issues identified in Section 9.0

### 8.1 GROUNDWATER ASSESSMENT

In assessing the groundwater data, it has become clear that several areas and/or items require a more detailed analysis. Therefore, the review has been separated into the following areas: (1) the source area; (2) the area immediately downgradient from the Courtyard; (3) the Old Crosscut Canal extraction wells; (4) the area downgradient from the Old Crosscut Canal but within the zone of capture; (5) the area downgradient from the zone of capture; (6) the northern edge of the plume between the source area and the zone of capture; (7) an assessment of vinyl chloride within OU1; and (8) bedrock capture.

#### 1. The Source Area

The evaluation of the groundwater data within the facility boundaries, including the source areas, indicates that VOC trends in the alluvium are declining. This indicates that the OU1 system is effectively reducing the contaminant concentrations levels in the alluvium which satisfies this requirement of the CO. However, the effectiveness of the system in the source area bedrock is a concern. It is ADEQ's opinion that pump and treat is not significantly effective in reducing the level of contaminants in fractured bedrock with known DNAPL. It should also be noted that MP-03 has not been sampled since December 9, 1997. It is anticipated that MP-03 TCE concentrations are, and will, remain high under the current operations.

#### 2. The Area Immediately Downgradient from the Courtyard

ADEQ is concerned that the relatively stable concentrations in DM301 and DM304 are due to the limited ability of pump and treat technology to reduce the nearby DNAPL mass.

ADEQ is also concerned that the strong downward vertical gradient at DM606 may indicate that deep bedrock capture in that area is inadequate. A slight increasing TCE concentration trend in the 330 ft. port increase this concern.

3. The Old Crosscut Canal Extraction Wells

In the June 18, 2001 letter (Appendix D), Motorola provided a response to the increasing trends observed in wells DM306, DM305, DM307, DM 312, and DM313 (See Section 3.2.10). Motorola stated that because the water in the alluvium has significantly declined, which has necessitated a reduction in pumping rates, this has resulted in an increased percentage of flow from groundwater in the bedrock which contains higher concentrations of TCE. In addition, because significantly less water is being removed from the alluvium, less dilution of the TCE concentrations coming from the bedrock is occurring, resulting in higher concentrations of TCE within the applicable extraction wells. Motorola's explanation of the increase in TCE in extraction wells DM306, DM305, DM307, DM 312, and DM313 is adequate.

ADEQ notes that extraction well DM313 currently exceeds the MCL for TCE, this well must be put back into operation. In addition, should future increasing TCE trends be observed in extraction well DM312 that exceed the MCL, this well must also be put back into operation.

ADEQ's inspection of the extraction wells revealed that due to the declining water level, DM306 was set to run in cyclic mode, 30-minutes on and 1-hour off. Operation of this well in cyclic mode does provide an indication that the extraction system may have to be modified to address capture of contaminants within the bedrock (See "Opportunities for Optimization" Section, page 68).

4. The Area Downgradient from the Old Crosscut Canal, but Within the Zone of Capture

TCE concentrations are increasing in the shallow bedrock ports (170 ft.) of DM603 and DM605. This may be the result of TCE contaminant migration from deeper bedrock fractures. Additional analysis of the data from these wells is needed.

5. The Area Downgradient from the Zone of Capture

There is a concern that if wells DM602, DM603, DM604, and DM605 are affected by the hydraulic capture zone of the extraction wells, there are no wells immediately downgradient and outside the capture zone that would be used to confirm that the plume has been contained. ADEQ notes that the closest downgradient monitor wells (DM118, DM119, DM120, DM122, DM123, DM 502, and DM503) are all approximately 1,000 ft. downgradient or farther.

6. The Northern Edge of the Plume Between the Source Area and the Zone of Capture

The increasing TCE trends found in wells EW18 (alluvium/bedrock) and DM125 (125 ft. bedrock port) indicated that the migration of TCE may not be contained in the northern boundary of the plume. The concentrations of TCE found in these northern wells also indicated that TCE is not completely defined to the north.

7. An Assessment of Vinyl Chloride Within OU1

Groundwater data indicated that VC is detected more frequently and at higher concentrations that exceed MCLs in some of the wells associated with OU1. ADEQ believes that VC should be closely monitored and discussed in appropriate progress and effectiveness reports prepared by Motorola.

8. Bedrock Capture Analysis

Evaluation of water level data collected from 1995 through 2000 (Table 7, and Appendices C and M) indicates that groundwater levels have been steadily declining near the Old Crosscut Canal extraction wells. Water levels in several of the alluvium/bedrock interface wells (e.g., DM112, DM115, DM313, DM123, and DM503) have dropped below the alluvium/bedrock interface. These data indicate that portions of the alluvial aquifer have been dewatered.

While dewatering of the alluvium indicates the success of the alluvial extraction system and alluvial capture, it changes the dynamics of the interim remedy:

- a. As water levels decline and the alluvium is dewatered, the total extraction rate will be reduced. Both extraction and treatment system design changes will be necessary to handle the reduced flow. ADEQ recommends that Motorola perform a thorough review of these issues and propose a plan to address the changes and modify the extraction and treatment systems as necessary. ADEQ recommends that these actions begin after the third quarter 2001 data is received.
- b. ADEQ is concerned that as the alluvial aquifer is dewatered, the effectiveness of bedrock capture may be reduced. Motorola submitted an analysis of capture in bedrock in the 1994 Effectiveness Report (see Appendix E *Interpretation and Use of hydraulic Head Data for Definition of the Capture Zone*). According to the model, *...pressure changes associated with a significant drawdown in the alluvium are transmitted to great depth in the*

*bedrock*,... This concept depends on pressure changes in the alluvium to induce capture in bedrock. This concept was demonstrated by the results of a three-dimensional numeric model discussed in the Appendix. If the alluvium is dewatered how can pressure changes be transmitted to bedrock fractures not connected to the extraction wells?

## **8.2 ASSESSMENT HONEYWELL/MOTOROLA CORRESPONDENCE REGARDING OU1 REMEDY**

The Honeywell and Motorola documents identify some important issues regarding the OU1 remedy.

ADEQ is concerned that pump and treat is not the most effective technology to address DNAPL contamination in bedrock and therefore, OU1 source area clean-up times may be long. ADEQ does not believe that the system is allowing alluvial contamination to continue west of the Old Crosscut Canal.

ADEQ is concerned with bedrock capture in some areas and the future of bedrock capture as the alluvium is dewatered. ADEQ finds Motorola's explanation regarding increasing extraction concentrations in some of the northern Old Crosscut Canal wells adequate, but recommends continued close monitoring of the system to ensure capture. ADEQ also recommends assessment of the downgradient monitoring network and modification, including the installation of additional wells, if necessary.

## **8.3 ASSESSMENT OF GROUNDWATER MODELING**

Motorola's *Interpretation and Use of Hydraulic Head Data for Definition of the Capture Zone* (Capture Analysis) was helpful in the analysis of OU1 capture. The Capture Analysis identified the affect that pumping the alluvium had on hydraulic head in the bedrock.

According to the Capture Analysis, an upward vertical gradient generally indicates capture. Based on ADEQ's review of vertical gradients, most of the OU1 wells demonstrated an upward vertical gradient, however two wells were identified with downward gradients.

The Capture Analysis identified and discussed an atypical well, DM603. DM603 indicated a neutral vertical gradient. The Capture Analysis uses the results of the numeric model to illustrate the subtlety of anisotropy and how it may complicate interpretation of head data at the site. The anisotropic model simulation indicated that a neutral vertical gradient is likely to exist at the DM

603 location. This simulation implied that the data collected from DM603 (neutral vertical gradient) supports hydraulic capture in deep bedrock.

Additionally, both simulations (isotropic and anisotropic) resulted in a significant response at great depth below the extraction system. The simulated depth to the capture zone beneath the location of the extraction wells was at least 900 feet, as modeled under isotropic conditions. It extended to more than 2,000 feet under anisotropic conditions.

Although the Capture Analysis indicated that OU1 capture is deep, it does not provide an adequate explanation of the vertical gradient data collected from DM606. This well consistently demonstrated a strong downward vertical gradient. An explanation of the DM606 data is needed to support effective deep bedrock capture.

#### **8.4 SVE REMEDIATION ASSESSMENT**

Review of historical documents, as verified during the site inspection, revealed that an SVE system had not been installed to address the vadose zone source contamination in the ATP as required in the CO. A review of the RI soil data indicates that SVE remediation at the ATP may not be applicable. However, no formal documentation was found requesting a NFA on conducting source remediation at the ATP.

The assessment of the SVE evaluation reports for the Courtyard and SWPL areas indicated that:

- The SVE system within the Courtyard must be operated in a cyclic mode, as was conducted in the SWPL area. Cyclic operation entails turning the system on and off for short periods of time to allow equilibration of the subsurface flow pathways in an effort to remove the remaining low concentrations of VOCs. Cyclic operation will entail two weeks of system operation, followed by two weeks off for flow pathway equilibrium. Each time the SVE system is restarted, a vapor sample will be collected and analyzed. Once two consecutive vapor samples are near or below the laboratory reporting limits, after surging has begun, Motorola must collect confirmatory soil boring samples. The results of the confirmatory soil sampling will be compared to the SRLs, or GPLs, in order to determine if continued source remediation (SVE) will be required, or if some other source remedy must be implemented in the final remedy.
- Confirmatory soil and/or soil gas samples must be collected in the areas impacted by the SVE system at the SWPL area. The results of the confirmatory soil and/or soil gas sampling

will be compared to the SRLs, or GPLs, in order to determine if continued source remediation (SVE) will be required, or if some other source remedy must be implemented in the final remedy.

Based on this evaluation, a decision to approve a NFA of SVE remediation within the Courtyard and SWPL areas cannot be determined at this time.

## **8.5 RESPONSE TO FIVE-YEAR REVIEW GUIDANCE ASSESSMENT QUESTIONS**

The following provides ADEQ's response to the assessment questions provided in the five-year review guidance document.

### **1. Is the remedy functioning as intended by the decision documents?**

- **Remedial Action Performance:** In evaluating the performance of OU1, historical documents pertaining to the implementation, operation, and effectiveness of the on-site and off-site extraction wells, the IGWTP, the Courtyard SVE system, and the SWPL AS/SVE system were reviewed. A site inspection of OU1 was also conducted (See Section 6.2). In addition, data from the groundwater monitoring well network, health assessments, and groundwater bedrock models were also reviewed. The evaluation of the OU1 performance is detailed in Sections 7.0 and 8.0 and is summarized in the following paragraphs.

- **The CO states in Appendix C1.3.3: *The OU is to perform interim cleanup of soil and groundwater contamination while preventing contaminant migration.***

As described in the review and assessment sections (7.0 and 8.0) of this report, the following determinations can be made regarding whether the remedy is functioning as intended:

- Dewatering the alluvium indicates the success of OU1 containing and controlling the migration of the contaminants in the alluvium, and the data indicates that the OU is effectively reducing the level of contaminants in the alluvium;
- Since site conditions have changed in the last few years, ADEQ is concerned whether the OU is completely containing and controlling the migration of the contaminants in bedrock;
- Since the CO does not distinguish between the alluvium and the bedrock, then, in essence, the OU is functioning as intended. However, ADEQ is concerned that dewatering the alluvium will reduce the effectiveness of bedrock capture. Therefore,

ADEQ cannot determine if this ARAR will continue to be met in the near future (less than five years).

- **System O&M:** In general, the OU1 remediation systems were in good condition. There were some minor issues found during the inspection (see Sections 6.2 and 10.0 - General Follow-up Actions and Additional Recommendations), however, these issues do not affect how OU1 is functioning as intended by the ROD, LOD, and CO.
- **Cost of O&M Activities:** Evaluation of the annual O&M cost data showed no significant difference of cost incurred during the years of 1996, 1997, and 1998 with the original estimate in the FS. The annual costs incurred during 1999 and 2000 were significantly lower than the original estimate, however, Motorola's explanation of reduced costs is acceptable (see Section 4.3). The reduction of O&M costs do not reduce the effectiveness of OU1.
- **Opportunities for Optimization:** The results of this five year review determined that due to the dewatering of the alluvium, the extraction wells are not operating efficiently (i.e., well DM306 is set to run in cyclic mode, 30-minutes on and 1-hour off). In addition, the operation of the IGWTP has been significantly reduced from the original designed capacity. Based on these findings, ADEQ requests that Motorola provide a plan to optimize the operation of the extraction wells and the IGWTP.
- **Implementation of Institutional Controls:** No institutional controls are currently being implemented for OU1. However, the interview with Mr. Mason Bolitho of ADWR indicated that any property owner has the right to install an "exempt" well for any type of use which cannot be restricted by ADWR. The potential future use of "exempt" wells by individual property owners has never been evaluated for OU1. To protect human health, it is recommended that some type of future well use survey be conducted for property owners within the area. If the results of the survey confirms future use of "exempt" wells by property owners, institutional controls (if possible) may have to be considered as part of the final remedy.

## 2. Are the assumptions used at the time of remedy selection still valid?

- **Changes to Established ARARs:** OU1 is currently in compliance with the ARARs established during the issuance of the ROD, LOD, and CO(see Section 6.3.1.3). In terms

of current standards, the results of the ARARs review (Section 6.3.1 and Tables 3 & 4) identified "Chemical-Specific" and "Action-Specific" ARARs that should be considered during the implementation of the final remedy. No "Location-Specific" ARARs were identified.

- **Changes in Exposure Pathways:** No changes in the site conditions that effect the exposure pathways were identified as part of the five-year review. However, due to changes in VOC concentrations in soil and groundwater, and changes in groundwater elevations due to dewatering of the alluvium, the baseline risk assessment should be updated to address these new site conditions prior to the selection of the final remedy.
- **Changes to Toxicity and Other Contaminant Characteristics:** Toxicity values were not presented in the 1988 health assessment. However, when comparing current toxicity values to the November 1992, Baseline Risk Assessment (which addressed the same COCs and exposure routes as the 1988 health assessment) (Table 5), it was concluded that any changes in the toxicity values were found to be *de minimis*. These results are based on the acceptability of pathways chosen for the conceptual model of human exposure associated with the site.
- **Changes in Risk Assessment Methodologies:** No methodology was provided in the 1988 health assessment. However, the methodology used to complete the 1992 Baseline Risk Assessment was based on EPA "Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual: Part A (1989). Current methodology for risk assessment has not changed from the 1992 Baseline Risk Assessment. There were no inconsistencies observed when comparing the 1992 Baseline Risk Assessment to current requirements.

**3. Has any other information come to light that could call into question the protectiveness of the remedy?**

Other than some of the performance issues identified in Item 1, no additional information has come to light that would call into question the protectiveness of the remedy.

## 9.0 IDENTIFIED ISSUES

The following issues were discovered during the five year review (Table 8).

### Groundwater Issues:

#### 1. The Source Area

Evaluation of the extraction and groundwater wells within and near the source areas, generally showed a decreasing TCE trend. The TCE trends in the extraction wells DM301 and DM304 are relatively stable, showing no increasing or decreasing trend. It is ADEQ's opinion that the pump and treat system is not significantly effective in reducing these levels of contaminants due to the DNAPL in fractured bedrock. ADEQ is concerned that high concentrations of TCE will continue in the source area wells for a long time.

Source area well MP-03 has not been sampled since December 9, 1997.

#### 2. The Area Immediately Downgradient from the Courtyard

ADEQ is concerned that the strong downward vertical gradient at DM606 may indicate that deep bedrock capture in that area is inadequate. A slight increasing TCE concentration trend in the 330 ft. port of this well increases this concern.

#### 3. The Old Crosscut Canal Extraction Wells

Increasing TCE trends are observed in wells DM306, DM305, DM307, DM 312, and DM313 (See Section 3.2.11). Motorola's explanation of the increasing TCE trend in extraction wells DM306, DM305, DM307, DM312, and DM313, is adequate (Appendix D). ADEQ will continue to monitor the TCE trends in these wells.

ADEQ notes that extraction well DM313 currently exceeds the MCL for TCE. This well must be put back into operation. In addition, should future increasing TCE trends be observed in extraction well DM312 that exceeds the MCL, this well must also be put back into operation.

ADEQ's inspection of the extraction wells revealed that due to declining water levels, DM 306 was set to run in cyclic mode 30-minutes on and 1-hour off. Operation of this well in cyclic mode indicates that the extraction system may need to be modified to address capture of contaminants within the bedrock (See "Opportunities for Optimization" Section).

4. The Area Downgradient from the Old Crosscut Canal but Within the Zone of Capture

TCE concentrations are increasing in the shallow bedrock ports (170 ft.) of DM603 and DM605. This may be the result of TCE contaminant migration from deeper bedrock fractures. Motorola will need to provide additional analysis of the data from these wells.

5. The Area Downgradient from the Zone of Capture

Groundwater monitor wells DM602, DM603, DM604, and DM605 are within the hydraulic capture zone of the extraction wells. The closest downgradient monitor wells (DM118, DM119, DM120, DM122, DM123, DM502, and DM503) are all approximately 1000 ft. downgradient or farther. There are no wells immediately downgradient and outside the capture zone that can be used to confirm that the plume is contained. ADEQ is concerned, particularly since the alluvium is becoming dewatered, that downgradient monitoring in the bedrock is limited.

6. The Northern Edge of the Plume Between the Source Area and the Zone of Capture

The increasing TCE trend found in wells EW18 (alluvium/bedrock) and DM125 (125 ft. bedrock port) indicated that the migration of TCE may not be contained in the northern boundary of the plume. The concentrations of TCE found in these northern wells also indicated that TCE is not completely defined to the north.

7. An Assessment of Vinyl Chloride Within OU1

Groundwater data indicated that VC is being detected more frequently and at higher concentrations exceeding MCLs in some of the wells associated with OU1. ADEQ believes that VC should be closely monitored and discussed in the Effectiveness Reports.

8. Bedrock Capture

Evaluation of water level data collected from 1995 through 2000 (Table 7, and Appendices C & M) indicated that groundwater levels have been steadily declining near the Old Crosscut Canal extraction wells. Water levels in several of the alluvium/bedrock interface wells (e.g., DM112, DM115, DM313, DM123, and DM503) have dropped below the alluvium/bedrock interface. These data indicate that portions of the alluvial aquifer have been dewatered.

While dewatering of the alluvium indicates the success of the alluvial extraction system and alluvial capture, it changes the dynamics of the OU-1 extraction and treatment system:

- a. As water levels decline and the alluvium is dewatered, the total extraction rate will be reduced. Both extraction and treatment system design changes will be necessary to handle the reduced flow.
- b. ADEQ is concerned that as the alluvial aquifer is dewatered, the effectiveness of bedrock capture may be reduced. Motorola submitted an analysis of capture in bedrock in the 1994 Effectiveness Report (see Appendix E *Interpretation and Use of hydraulic Head Data for Definition of the Capture Zone*). According to the model, *...pressure changes associated with a significant draw down in the alluvium are transmitted to great depth in the bedrock,...* This concept depends on pressure changes in the alluvium to induce capture in bedrock. This concept was demonstrated by the results of a three-dimensional numeric model discussed in the Appendix. If the alluvium is dewatered how can pressure changes be transmitted to bedrock fractures not connected to the extraction wells?

**Soil Issues:**

9. The CO required that an SVE system be installed at the ATP. The site inspection and document review confirmed that no SVE system was installed in the ATP.
10. Review of the effectiveness report indicates that the SVE system within the Courtyard area was not operated in a cyclic mode prior to shut down. In addition, no confirmatory soil sampling was performed.
11. Review of the effectiveness report indicated that no confirmatory soil sampling was performed after the shut down of the SVE system within the SWPL area.

**Health Assessment Issues:**

12. A Site Review and Update for the 52<sup>nd</sup> Street Site has not been conducted by ADHS since 1996.
13. The Baseline Risk Assessment and the Health Assessments recommended to increase the frequency of monitoring Mr. Morgan's well. The well has not been sampled in years, however, this may be due to access issues.

14. Property owners have the right to install an "exempt" well for any type of use which cannot be restricted by ADWR. The potential future use of "exempt" wells by individual property owners has never been evaluated for OU1. An institutional control may need to be considered.
15. ADHS identified a private well (Willis) in the 1992 Baseline Risk Assessment that is located within OU1. However, no information regarding the well is provided except that it is "closed".
16. The Turnage well that was locked in 1986 to prevent its use and access is controlled by Motorola. This well is not monitored to ensure the integrity of the lock and the well. Additionally, it is unclear as to the status of ownership of the well.
17. The ADHS Soil Gas Sampling Risk Assessment (March 1992) concluded that concentrations of 1,1-DCE are high enough to suggest that further study of potential indoor exposures may be warranted, including collecting air samples from residences. This issue is not addressed in the ADHS Baseline Risk Assessment (November 1992) or in subsequent ATSDR Health Assessments.

**General Issues:**

18. Inspection of the IGWTP revealed that the secondary containment system's protective coating was cracking, peeling, and/or lifting up.
19. The PVC valve at the Liquid Chlorine Feed system looked brittle.
20. The pressure gauge on Air Stripper AS-201 was not functioning.
21. Well vault MP-11 was full of water.

In addition, the following were noted during the five year review (Table 8).

1. The treated effluent monitoring plan was not available on-site.
2. The PQGWWP was not available on-site.
3. The IGWTP effluent data and air emissions data were not available on-site.

4. The perimeter fencing around the IGWTP did not completely surround the system and locks were not provided on the access gates.
5. Perimeter signs that warn of unauthorized entry were of insufficient number to cover the entire perimeter of the IGWTP.
6. Review of the SWPL RI report indicated that a typo was made in Tables F.4 and F.5 regarding the unit; " $\mu\text{g}/\text{mg}$ " should actually be " $\text{mg}/\text{kg}$ ".
7. The 1992 Baseline Risk Assessment is outdated based on current site conditions for consideration in the final remedy.

## **10.0 FOLLOW-UP ACTIONS AND RECOMMENDATIONS**

Based on the issues found during the five year review (Section 9.0) the following corrective actions should be taken by Motorola. Table 9, provides a summary of the above follow-up and recommended actions.

### **Groundwater Follow-up Actions:**

#### **1. The Source Area**

ADEQ anticipates that the source area extraction system will approach the limits of effective mass reduction in the source area in the near future. ADEQ believes it would be prudent to begin evaluation of alternative treatment technologies for DNAPL in fractured bedrock. If the source area were effectively reduced, it may greatly reduce the long term operation and monitoring of the current pump and treat system.

Source area well MP-03 should be added to the monitoring plan and sampled annually.

#### **2. The Area Immediately Downgradient from the Courtyard**

An analysis and explanation of the DM606 hydraulic and water quality data should be provided.

#### **3. The Old Crosscut Canal Extraction Wells**

TCE trends in wells DM306, DM305, DM307, DM 312, and DM313 should be closely monitored and discussed in future Effectiveness Reports.

Extraction well DM313 should be put back into operation. If increasing TCE trends are observed in extraction well DM312 (exceeding the MCL), this well should also be put back into operation.

Operation of extraction wells (e.g., DM306) in cyclic mode indicates that the system may be entering a new phase of operation. A plan that addresses current and future extraction well rate changes and their affect on the OU1 system and bedrock capture should be developed and submitted (see (8) below).

4. The Area Downgradient from the Old Crosscut Canal but Within the Zone of Capture

An analysis and explanation of the increasing TCE concentrations in the shallow bedrock ports of DM603 and DM605 should be provided.

5. The Area Downgradient from the Zone of Capture

ADEQ is concerned, particularly since the alluvium is becoming dewatered, that downgradient (from the Old Crosscut Canal capture zone) monitoring in the bedrock is limited. A plan should be provided that includes:

- a. an analysis and evaluation of the current downgradient monitoring well network, and
- b. a plan to ensure adequate future downgradient monitoring with the addition of new groundwater monitoring wells, if determined necessary (see (8) below). The plan should address the potential changes in bedrock extraction as water levels continue to decline.

6. The Northern Edge of the Plume Between the Source Area and the Zone of Capture

An analysis and explanation of the TCE concentrations in wells EW18 and DM125 should be provided. Groundwater monitor well DM26 should be added to the current OU1 network and monitored annually.

7. An Assessment of Vinyl Chloride Within OU1

VC should be closely monitored and discussed in future Effectiveness Reports. VC should be added to the OU1 COCs.

8. Bedrock Capture

ADEQ is concerned that as the alluvial aquifer is dewatered, the effectiveness of bedrock capture may be reduced.

A plan should be provided that addresses the following:

- a. An updated conceptual site model (CSM) that incorporates dewatering of the alluvium. The CSM should address effectiveness of bedrock capture as the alluvium is dewatered. It may be useful to update the 1994 numeric model to aid in the analysis of the system.
- b. Any OU1 design changes necessary to maintain capture, especially in bedrock.
- c. Any OU1 monitoring well network changes necessary to assess the performance of the system as conditions change.

**Soils Follow-up Actions:**

9. Motorola should provide documentation as to why an SVE system was not installed or required at the ATP.
10. The SVE system within the Courtyard should be operated in a cyclic mode. Cyclic operation entails turning the system on and off for short periods of time to allow equilibration of the subsurface vapors and flow pathways in an effort to remove the remaining low concentrations of VOCs. Cyclic operation should entail two weeks of system operation, followed by two weeks off for flow pathway equilibrium. Each time the SVE system is restarted, a vapor sample will be collected and analyzed. Once two consecutive vapor samples are near or below the laboratory reporting limits, after surging has begun, Motorola should collect confirmatory soil boring samples. Prior to conducting any work, Motorola should submit a work plan to ADEQ.
11. Confirmatory soil samples should be collected in the areas impacted by the SVE system at the SWPL area. Prior to conducting any work, Motorola should submit a work plan to ADEQ.

**Health Assessment Follow-up Actions:**

12. ADHS will be conducting a Site Review and Update for the 52<sup>nd</sup> Street Superfund Site within the next year.
13. ADEQ and Motorola should develop a plan to notice Mr. Morgan (or current owner), gain access to the well, sample on a periodic basis, provide analytical results to Mr. Morgan (or current owner), and take other actions if necessary.
14. ATSDR is currently assessing the well surveys that have been conducted at the Motorola 52<sup>nd</sup> Street Site. A well use survey should also be conducted within the Site. If the results of the survey confirms future use of "exempt" wells by property owners, institutional controls should be considered.
15. ADHS should investigate the status of the Willis well during their next Site Review and Update.
16. Motorola should conduct semiannual inspections of the Turnage well to ensure that the well has not been tampered with. Additionally, the owner of the well should be identified and Motorola should consider transferring ownership since they are responsible for ensuring no one has access

to the well. If the Turnage well has no use to the 52<sup>nd</sup> Street Site, Motorola should consider abandoning the well.

17. ADHS should determine if 1,1-DCE, and any other VOCs, are still a concern for indoor air exposure.

**General Follow-up Actions:**

18. The IGWTP secondary containment system's protective coating should be repaired to fix all areas that were cracking, peeling, and/or lifting up.
19. The PVC valve at the Liquid Chlorine Feed system should be replaced.
20. The non-functioning pressure gauge on Air Stripper AS-201 should be replaced.
21. Water that has accumulated in well vault MP-11 should be removed. Motorola should ensure that O&M of the well vaults are maintained to prevent any potential problems due to rainfall/runoff.

In addition, based on the noted concerns detailed in Section 9, the following recommendations are being provided.

1. The treated effluent monitoring plan should be made available onsite for future inspections.
2. The PQGWWP should be made available on-site for future inspections.
3. The IGWTP effluent data and air emissions data should be made available on-site for future inspections.
4. Because Motorola does not own the entire facility, it is highly recommended that the perimeter fencing be fully extended around the IGWTP. In addition, access gates to the IGWTP should be kept locked when unattended by authorized OU1 maintenance personnel.
5. Perimeter signs that warn of unauthorized entry should be placed around all sides of the perimeter fence around the IGWTP.

6. The typos in Tables F.4 and F.5; ("ug/mg" should actually be "mg/kg") within the SWPL RI report should be corrected and an errata sheet submitted to ADEQ and EPA.
7. Because decrease in contaminant concentrations may have occurred, which ultimately reduces risk, it is recommended that the 1992 Baseline Risk Assessment be updated to assess these new site conditions prior to the selection of the final remedy. Reduction in risk would play an important role in the nature and type of the final remedy that is selected.

## 11.0 PROTECTIVENESS STATEMENT

A protectiveness determination of the OU1 interim remedy at the Motorola 52<sup>nd</sup> Street Superfund Site cannot be made at this time until further information is obtained. Further information will be obtained by taking the following actions:

- (1) Collect additional information and data to evaluate the hydraulic and water quality of well DM606;
- (2) Extraction well DM313 should be placed in operation since TCE concentrations have increased above the MCL;
- (3) A plan should be developed that addresses current and future extraction well rate changes and their affect on the OU1 system and bedrock capture;
- (4) Collect additional information and data to evaluate the increasing TCE concentrations in the shallow bedrock ports of wells DM603 and DM605;
- (5) Collect additional information and data to evaluate the concentrations of TCE in wells EW18, DM125;
- (6) A plan should be developed to address the concern that as the alluvial aquifer is dewatered the capture of contamination in bedrock may be reduced. This will entail updating the Conceptual Site Model, conducting any design changes that may be necessary to maintain capture, any monitoring well network changes necessary to assess the performance of the system as conditions change, and may also require updating the 1994 numeric model;
- (7) A plan should be developed to assess the status of the Morgan well and to ensure that the current owner is not adversely impacted by VOC contamination.

Within six months from the date of this report, ADEQ will reevaluate OU1 to determine if all corrective actions have been completed. ADEQ will then issue a supplemental report on the findings, which will also include a protectiveness statement.

## **12.0 NEXT REVIEW**

This site will require on-going statutory five-year reviews. The next review will be completed within five years after the date ADEQ and EPA approve this report. The approval date of this report is provided in the "Report Approvals" section, Page iv.



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TABLE 1 - CHRONOLOGY OF SITE EVENTS

| DATE                                | EVENT   |
|-------------------------------------|---|
| 1956                                | Manufacturing operations commenced at the Motorola 52nd Street facility.  |
| 1963 to 1974                        | A dry well located in the Courtyard area was used for solvent disposal.   |
| 1974 to 1976                        | South West Parking Lot (SWPL) area was used for waste chemical storage.   |
| November 1982                       | Motorola discovered a discrepancy in the inventory for 1,1,1-TCA in a 5,000 gallon UST.   |
| February 1983                       | Remedial Investigation initiated.   |
| December 1983                       | Preliminary Investigation Report for 52nd Street facility was submitted to ADEQ by Motorola.  |
| October 1984                        | A workplan and a quality assurance program plan (QAPP) for the implementation of the RI/FS were issued.   |
| November 1984                       | Initial soil-gas investigation was conducted at the Site.   |
| February/March 1985                 | Soil gas investigation indicated PCE existed at elevated concentrations between Buildings A-D and A-A, and in the southwest corner of SWPL.                   |
| October 1985 through February 1986  | Source verification investigations (Stage 1) were conducted.  |
| August 8, 1986                      | The results of preliminary screening of remedial action technologies and/or alternatives was submitted to ADEQ as a draft report.                             |
| September 1986 through October 1986 | A well survey was conducted to identify existing monitoring wells, public wells, and private wells in an area downgradient from the Site.                     |
| September 4, 1986                   | A work plan to implement the groundwater PTP was issued.  |
| September 15, 1986                  | The PTP operations were initiated.  |
| June 1987                           | Draft Results of the RI/FS study was submitted to ADEQ.   |
| June 1988                           | Draft RAP for OU1 was submitted to ADEQ.  |
| September 1988                      | EPA issued a Record of Decision for OU1 and ADEQ issued a Letter of Determination for OU1.  |
| January 1989                        | Additional soil-gas samples were collected within the SWPL area.  |
| January 17-18, 1989                 | A supplementary soil-gas investigation was performed in the Courtyard area to further assess the potential sources identified during previous investigations. |
| June 20, 1989                       | Motorola entered into a Consent Order with ADEQ to implement a groundwater and soil remedy for OU1.   |
| July 26, 1989                       | Motorola 52nd Street Consent Order was lodged with the Arizona Superior Court.  |
| October 1989                        | The site was placed on the USEPA CERCLA NPL.  |
| 1990                                | A sump in the southwest corner of Building A-D was identified as another source of contamination in the SWPL area.  |
| August 1990                         | Additional wells were added to the Pilot Treatment System.  |
| January 4, 1991                     | A hydrologic report supporting the application for a poor quality groundwater withdrawal permit (PQGWWP) for the OU1 extraction wells was submitted to ADWR.  |
| February 1991                       | SWPL investigation was initiated.   |
| March 1991                          | A soil gas investigation was conducted within the SWPL area.  |
| March 1991                          | 100% completed design drawings for the IGWTP was submitted to ADEQ.   |
| May 8, 1991                         | ADWR issued a PQGWWP #59-530577 for the OU1 groundwater extraction program.   |
| June 28, 1991                       | Pumping activities were initiated in SWPL area.   |

TABLE 1 - CHRONOLOGY OF SITE EVENTS

| DATE                               | EVENT  |
|------------------------------------|--|
| October 1991 through November 1991 | Additional soil-gas investigation was conducted within the SWPL area.  |
| February 19, 1992                  | Final remedy remedial investigation report for OU1 was completed and submitted by Motorola to ADEQ.  |
| May 1992                           | A baseline report prior to the startup of the IGWTP was submitted to ADEQ. This baseline report would be used to compare the effectiveness of OU1.   |
| May 1992                           | The SWPL remedy was expanded.  |
| May 7, 1992                        | The installation of the CYSVE system was completed.  |
| May 8-13, 1992                     | Baseline data for the CYSVE system was collected.  |
| June 3, 1992                       | The CYSVE system was initially started up and subsequently shut down for process modifications.  |
| July 1992                          | Permanent treatment system (IGWTP) for OU1 became operational.   |
| September 11, 1992                 | A final draft SWPL RI Work Plan was submitted to ADEQ.   |
| September 21, 1992                 | CYSVE pilot program began operation.   |
| September 23, 1992                 | A draft In-Situ Air Sparging/SVE System Field Test (Pilot Test) Plan was submitted to ADEQ.  |
| February 11, 1993                  | Air sparging/soil vapor extraction (AS/SVE) pilot program began operation in two locations within the SWPL area; the parking lot and Building A-D. Phase I SVE test within the parking lot area was performed. |
| February 15, 1993                  | The Phase 2 SVE test within the Building A-D area was performed in the SWPL area.  |
| February 17, 1993                  | Sensitivity testing was performed on portions of the CYSVE system operation.   |
| February 19, 1993                  | The Phase 3 AS test was performed on well AS002 in Building A-D in the SWPL area.  |
| February 20, 1993                  | The combined AS/SVE Phase 4 test was initiated in SWPL area.   |
| February 25, 1993                  | SWPL AS/SVE pilot program ended.   |
| March 31, 1993                     | CYSVE pilot program ended.   |
| April 1993                         | Progress reporting activities for OU1 operations were implemented.   |
| May 1993                           | The results of the investigation activities performed at the SWPL area was presented in a draft report.  |
| May 1993                           | The first effectiveness report for OU1 1992 operations was submitted to ADEQ.  |
| June to December 1993              | OU1 permanent system was suspended due to a vinyl chloride air emission problem.   |
| December 28, 1993                  | OU1 was put back into continuous operation.  |
| 1994                               | Motorola initiated a program of periodic recovery of dense non-aqueous phase liquid (DNAPL).   |
| February 18, 1994                  | A report evaluating the bedrock investigation was submitted to ADEQ.   |
| September 1994                     | Motorola submitted the 1993 OU1 Effectiveness Report to ADEQ.  |
| October 14, 1994                   | Addendum to SWPL RI report was submitted to ADEQ.  |
| December 1994                      | A report summarizing the results of the CYSVE pilot program was submitted to ADEQ.   |
| December 1, 1994                   | A groundwater monitoring plan for OU1 was submitted to ADEQ.   |
| April 1995                         | Motorola submitted the 1994 OU1 Effectiveness Report to ADEQ.  |
| April 21, 1995                     | AS/SVE Pilot Program for SWPL was submitted to ADEQ.   |
| April 21, 1995                     | SWPL Remediation Design Report was submitted to ADEQ.  |

TABLE 1 - CHRONOLOGY OF SITE EVENTS

| DATE              | EVENT  |
|-------------------|--|
| April 25, 1995    | Design report, plans and specifications detailing SVE/AS for SWPL were submitted to ADEQ.  |
| June 1, 1995      | ADEQ approved the SVE/AS design plans for SWPL.  |
| September 1995    | Five-year review report prepared by ADEQ was finalized.  |
| November 16, 1995 | EPA accepted and approved the five year review report.   |
| December 4, 1995  | Multi-depth soil gas investigation was performed within the Courtyard area.  |
| February 1996     | Final construction specification of the installation of the AS/SVE system at the SWPL Building A-D was submitted to ADEQ.  |
| March 1, 1996     | Motorola submitted the 1995 OU1 Effectiveness Report to ADEQ.  |
| March 29, 1996    | SWPL Remediation Operation Plan was submitted to ADEQ.   |
| March 31, 1996    | Motorola confirmed that air emission controls that were changed in 1993 are final.   |
| November 1996     | SWPL AS/SVE operations began.  |
| March 1, 1997     | Motorola submitted the 1996 OU1 Effectiveness Report to ADEQ.  |
| April 1997        | The AS/SVE system at SWPL ended.   |
| April 28, 1997    | A report on the evaluation of the CYSVE system was submitted to ADEQ.  |
| December 1997     | Motorola submitted an updated monitoring plan to ADEQ for review and comments.   |
| December 17, 1997 | ADEQ approved the updated monitoring plan subject to minor modifications.  |
| January 1998      | Final updated monitoring plan was submitted by Motorola to ADEQ.   |
| January 5, 1998   | Motorola submitted a Request for Modification on the PQGWTP to eliminate chloroform, 1,2-DCE, and carbon tetrachloride from the key parameters list, reduce the sampling for VOCs in extraction wells on an annual basis, include the 12 extraction wells in the SWPL area to the modified monitoring program, and reduce the reporting activity on a semi-annual basis. Request was approved by ADWR. |
| March 31, 1998    | Motorola submitted the 1997 OU1 Effectiveness Report to ADEQ.  |
| April 30, 1998    | Motorola submitted a no further action request for the CYSVE system.   |
| December 22, 1998 | A report on the evaluation of the SWPL SVE system was submitted to ADEQ.   |
| March 31, 1999    | Motorola submitted the 1998 OU1 Effectiveness Report to ADEQ.  |
| March 1, 2000     | Motorola submitted the 1999 OU1 Effectiveness Report to ADEQ.  |
| August 2000       | An updated O&M Manual for the IGWTP was submitted to Motorola.   |
| March 21, 2001    | Motorola submitted a no further action request for the SWPL SVE system.  |

**TABLE 2 - ANNUAL O&M COSTS**

| <b>Dates</b> |           | <b>Total Cost Rounded to Nearest \$100</b> |
|--------------|-----------|--|
| <b>From</b>  | <b>To</b> |  |
| Jan-96       | Dec-96    | \$699,000                                  |
| Jan-97       | Dec-97    | \$897,000                                  |
| Jan-98       | Dec-98    | \$744,000                                  |
| Jan-99       | Dec-99    | \$442,000                                  |
| Jan-00       | Dec-00    | \$265,000                                  |

**TABLE 3**  
**SUMMARY OF CURRENT CHEMICAL-SPECIFIC STANDARDS**  
Motorola 52nd Street - Five Year Review  
Phoenix, Arizona

| Authority                               | Medium      | Requirements  | Requirement Synopsis  | Remedy Compliance with Current Standards   |
|---|-------------|---|---|--|
| Federal Regulatory Requirements         | Groundwater | Federal Safe Drinking Water Maximum Contaminant Levels (MCLs) for organic and inorganic chemicals (40 CFR 141 Subparts B and G)                       | MCLs have been promulgated for a number of common organic and inorganic contaminants. These levels regulate the concentrations of contaminants in public drinking water supplies, and are considered relevant and appropriate for groundwater aquifers potentially used for drinking water. | Not Applicable - Although current groundwater conditions within the Site have shown that many of the contaminants of concern, especially the VOCs, are above their specific MCL at on-site and off-site wells (See Section 7.1 & Table 6), the Consent Order does not establish a level of cleanup for the aquifer (C1.3.3). This ARAR will be applicable to the final remedy.                 |
|   |             | EPA Region IX, 1999. Preliminary Remediation Goals (PRGs).  | EPA Region IX guidelines establishing concentrations of compounds in tap water considered to be protective of human health.   | Not Applicable - Although, current groundwater conditions within the Site have shown that many of the contaminants of concern, especially the VOCs, are above their specific PRG at on-site and off-site wells (See Section 7.1 & Table 6), the Consent Order does not establish a level of cleanup for the aquifer (C1.3.3). This ARAR will be relevant and appropriate to the final remedy.  |
|   | Wastewater  | Federal Pretreatment Standard for total toxic organics (TTO) (40 CFR 469.16).   | Specifies that the maximum daily limitation for TTO is 1370 ug/l.   | Yes  |
|   | Soil        | EPA Region IX, 1999. Preliminary Remediation Goals (PRGs).  | EPA Region IX guidelines establishing concentrations of compounds in soil considered to be protective of human health.  | Unknown - No post remediation confirmatory soil sample results were available to compare.  |
| State and Local Regulatory Requirements | Groundwater | Arizona Aquifer Water Quality Standards (AWQS), (AAC R18-11-109, AAC R18-11-406)  | Statewide aquifer protection standards for organic and inorganic compounds, established for drinking water protective usage. Many of the compound concentrations are comparable to the Federal MCLs.  | Not Applicable - Although current groundwater conditions within the Site have shown that many of the contaminants of concern, especially the VOCs, are above their specific AWQS at on-site and off-site wells (See Section 7.1 & Table 6), the Consent Order does not establish a level of cleanup for the aquifer (C1.3.3). This ARAR will be applicable to the final remedy.                |
|   |             | ADEQ's (Office of Environmental Health) Human Health-Based Guidance Levels (HBGLs) for the Ingestion of Contaminants in Drinking Water, December 1997 | This guidance document lists a variety of compounds that provides different concentrations/limits based upon: calculated risk-based ingestion concentrations; MCLs; proposed MCLs; and state laboratory levels of quantitation values.  | Not Applicable - Although, current groundwater conditions within the Site have shown that many of the contaminants of concern, especially the VOCs, are above their specific HBGL at on-site and off-site wells (See Section 7.1 & Table 6), the Consent Order does not establish a level of cleanup for the aquifer (C1.3.3). This ARAR will be relevant and appropriate to the final remedy. |

**TABLE 3**  
**SUMMARY OF CURRENT CHEMICAL-SPECIFIC STANDARDS**  
 Motorola 52nd Street - Five Year Review  
 Phoenix, Arizona

| Authority                               | Medium     | Requirements  | Requirement Synopsis   | Remedy Compliance with Current Standards   |
|---|------------|---|--|--|
| State and Local Regulatory Requirements | Soil       | Arizona Soil Remediation Levels (SRLs) and Groundwater Protection Levels (GPLs) (AAC R18-7-205)   | SRLs are statewide pre-determined remediation standards for residential or non-residential areas depending on the sites usage. GPLs are alternate standards which must be used if they are more stringent than the SRLs.   | Unknown - No post remediation confirmatory soil sample results were available to compare. The SRLs and GPLs were promulgated after the CO was executed. However, these standards will be applicable to the final soil remedy for the Site. |
|   |            | ADEQ's (Office of Environmental Health) Human Health-Based Guidance Levels (HBGLs) for the Ingestion of Contaminants in Soil, December 1997 | This guidance document lists a variety of compounds that provides different concentrations/limits based upon calculated risk-based ingestion concentrations.   | Unknown - No post remediation confirmatory soil sample results were available to compare.  |
|   | Wastewater | Appendix C1.3.4(3) of the Consent Order.  | ARARs established in the Consent Order issued to Motorola requires that treated groundwater effluent does not exceed 100 ppb of the total VOC concentration, if the TTO concentration is less than 186 ppb. If the TTO limit is exceeded for three consecutive months, the VOC limit of the effluent may not exceed 50 ppb of which the TCE concentration must be less than 5 ppb. | Yes  |
|   | Air        | Maricopa County Environmental Services Department (MCESD) Rule 200, Section 303   | An Air Emissions Permit was issued by MCESD, however, the permit was eventually withdrawn by MCESD after Motorola demonstrated that the emissions were so low that a permit was no longer required.  | No longer applicable.  |
|   |            | Maricopa County's VOC Limitation.   | This standard limits VOC emission from any source within Maricopa County to less than 3 lbs/day.   | Yes  |
|   |            |   |  |  |

**TABLE 4**  
**SUMMARY OF ACTION-SPECIFIC STANDARDS**  
Motorola 52nd Street - Five Year Review  
Phoenix, Arizona

| Authority                       | Requirements   | Requirement Synopsis  | Remedy Compliance with ARARs   |
|---------------------------------|--|---|--|
| Federal Regulatory Requirements | "Federal Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities for Tank Systems" (40 CFR 264.192). Not an established ARAR for OU1.         | Provides the requirements for the design and installation of a tank system or component, and requires that: the tank system be compatible with the material being stored or treated; the tank system be tested to ensure the system has sufficient structural integrity of the material being stored; a corrosion assessment be performed on the tank system; and the tank's system foundation be evaluated to ensure that it can withstand the load of a full tank system. May be an ARAR for the final remedy.  | Although not applicable, OU1 does comply with this standard. The final remedy should consider this ARAR.   |
|                                 | "Federal Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities for Tank Systems" (40 CFR 264.193). Not an established ARAR for OU1.         | Provides the requirements for containment and detection of releases from tank systems by the installation of a secondary containment system that prevents any releases to soil, groundwater, or surface water, and installation of a leak-detection system that will detect the failure of either the primary tank system or secondary containment system within 24-hours. The remaining sections of this regulation, provides specific guidelines on the design of the secondary containment and leak-detection system. May be an ARAR for the final remedy. | Although not applicable, OU1 would not comply with this standard. The final remedy should consider this ARAR.  |
|                                 | "Federal Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities for Tank Systems" (40 CFR 264.194). Not an established ARAR for OU1          | Provides general operating requirements for the tank systems. May be an ARAR for the final remedy.  | Although not applicable, OU1 does comply with this standard. The final remedy should consider this ARAR.   |
|                                 | "Federal Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities for Tank Systems" (40 CFR 264.195). Not an established ARAR for OU1.         | Provides inspection requirements for the tank systems which requires that the system be inspected on a daily basis for leaks, system deterioration and corrosion, operation of leak detection equipment, inspection of cathodic protection systems (if applicable), and deterioration of the secondary containment system. May be an ARAR for the final remedy.   | Although not applicable, OU1 does comply with this standard. The final remedy should consider this ARAR.   |
|                                 | "Federal Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities for Tank Systems" (40 CFR 264.196). Not an established ARAR for OU1.         | Provides requirements for responding to leaks or spills from a tank system. May be an ARAR for the final remedy.  | Although not applicable, OU1 does comply with this standard. The final remedy should consider this ARAR.   |
|                                 | "Federal Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities for Tank Systems" (40 CFR 264.200). Not an established ARAR for OU1.         | Provides requirements for the control of vapor emissions from the tank system, which is addressed in 40 CFR Part 264, Subparts AA, BB, and CC. May be an ARAR for the final remedy.   | Although not applicable, OU1 does comply with this standard. The final remedy should consider this ARAR.   |
|                                 | "Federal Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities for Tank Systems" (40 CFR 264, Subpart AA). Not an established ARAR for OU1. | Provides requirements for the design and operation to control air emissions from process vents connected to tanks, air strippers, and other vessels required in the final remedy.   | Although not applicable, OU1 does comply with this standard. The final remedy should consider this ARAR.   |
|                                 | "Federal Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities for Tank Systems" (40 CFR 264, Subpart BB). Not an established ARAR for OU1. | Provides air emission control requirements for equipment leaks which applies to all pumps, compressors, connections and valves required in the final remedy.  | Although not applicable, OU1 does comply with this standard. The final remedy should consider this ARAR.   |
|                                 | "Federal Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities for Tank Systems" (40 CFR 264, Subpart CC). Not an established ARAR for OU1. | Provides air emission control standards applicable to all tanks and vessels required in the final remedy.   | Although not applicable, OU1 does comply with this standard. The final remedy should consider this ARAR.   |
|                                 | "Standards of Performance for Volatile Organic Liquid Storage Vessels" (40 CFR 60, Subpart Kb). Not an established ARAR for OU1.   | Provides air emission control standards that may be relevant and appropriate to all tanks and vessels required in the final remedy.   | Not Reviewed - The air emission control requirements applicable to a hazardous waste tank system (40 CFR 264, Subpart AA, BB, & CC) adequately addresses these requirements. |
|                                 | "National Emission Standard for Equipment Leaks" (40 CFR Part 61, Subpart V). Not an established ARAR for OU1.   | Provides air emission control standards that may be relevant and appropriate to all valves, drains, connections, and lines required in the final remedy.  | Not Reviewed - The air emission control requirements applicable to a hazardous waste tank system (40 CFR 264, Subpart AA, BB, & CC) adequately addresses these requirements. |
|                                 | "Standards Applicable to Generator of Hazardous Waste" (40 CFR 262). Established as an ARAR in Section 6.3 of the Consent Order.   | Provides the management guidelines of the recovered solvents and spent carbon applicable to OU1.  | Yes  |

**TABLE 4**  
**SUMMARY OF ACTION-SPECIFIC STANDARDS**  
Motorola 52nd Street - Five Year Review  
Phoenix, Arizona

| Authority                               | Requirements   | Requirement Synopsis   | Remedy Compliance with ARARs   |
|---|--|--|--|
| State and Local Regulatory Requirements | Arizona Administrative Code (AAC) Title 45, Chapter 2, Article 10. Established as an ARAR in Section 6.3 of the Consent Order.               | Provides the requirements for the drilling, construction, operation, and abandonment for any type of well which is directly applicable to the extraction and monitoring wells installed for OU1.   | Yes  |
|   | Maricopa County Environmental Services Department (MCESD) Rule 200, Section 303. Established as an ARAR in Section 6.3 of the Consent Order. | An Air Emissions Permit was issued by MCESD, however, the permit was eventually withdrawn by MCESD after Motorola demonstrated that the emissions were so low that a permit was no longer required.  | No Longer Applicable.  |
|   | City of Phoenix construction permits and right of way acquisitions. Established as an ARAR in Section 6.3 of the Consent Order.              | Provides requirements to obtain construction permits and right of way acquisitions for the construction of the OU1 systems and off-site extraction wells.  | Yes  |
|   | Arizona Revised Statutes (ARS) 45-516. Established as an ARAR in Section 6.3 of the Consent Order.   | Requires that the operations of the OU1 conform with area groundwater management plans.  | Yes  |
|   | Appendix C1.3.2 of the Consent Order (established ARAR).   | This established ARAR requires that OU1 maintain a "zone of capture" by ensuring that the hydraulic gradient is maintained from the edges of the "zone of capture" to the extractions wells to reduce/eliminate the contaminant migration. | Unknown - Additional data must be provided by Motorola.  |
|   | Appendix C1.3.4(1) of the Consent Order (established ARAR).  | Requires that the treated groundwater from OU1 be beneficially used at the Motorola 52nd Street Facility.  | Yes  |
|   | Appendix C1.3.4(4) of the Consent Order (established ARAR).  | Requires that the OU1 air stripping tower be equipped with air emission controls as needed to meet Maricopa County requirements Rule 320, Section 302.   | Yes  |
|   | "Standard of Performance for Unclassified Sources" (AAC Title 18, Chapter 2, R18-3-730). Not an established ARAR.                            | Provides air emission control standards that may be relevant and appropriate to all tanks and vessels required in the final remedy.  | Not Reviewed - The air emission control requirements applicable to a hazardous waste tank system (40 CFR 264, Subpart AA, BB, & CC) adequately addresses these requirements. |
|   | "Odors and Gaseous Air Contaminants" (Regulation III, Section 320). Not an established ARAR.   | Provides air emission control standards that may be relevant and appropriate to all tanks and vessels required in the final remedy.  | Not Reviewed - The air emission control requirements applicable to a hazardous waste tank system (40 CFR 264, Subpart AA, BB, & CC) adequately addresses these requirements. |
|   | "Volatile Organic Compounds" (Regulation III, Section 330). Not an established ARAR.   | Provides air emission control standards that may be relevant and appropriate to all tanks and vessels required in the final remedy.  | Not Reviewed - The air emission control requirements applicable to a hazardous waste tank system (40 CFR 264, Subpart AA, BB, & CC) adequately addresses these requirements. |

**Table 5. Confirmation of Chemical-Specific Toxicity Values**

| Chemical of Concern             | Toxicity Value Name                                    | Toxicity Value             | Source (oral/inhal.) | Impact on Risk Assessment |   |
|---------------------------------|--|----------------------------|----------------------|---------------------------|---|
| COCs with Carcinogenic Endpoint |  |                            |                      |                           |   |
| Vinyl Chloride                  | Carcinogen Slope Factor [SF] (mg/kg-day) <sup>-1</sup> | Previous (oral/inhalation) | 1.9 / 0.000084       | EPA, 1991                 | Impact on the risk assessment de minimis. |
|                                 | Cancer Slope Factor [SF] (mg/kg-day) <sup>-1</sup>     | Current (oral/inhalation)  | 1.9 / 0.3            | EPA, 1997                 |   |
| 1,1-Dichloroethene              | Carcinogen Slope Factor [SF] (mg/kg-day) <sup>-1</sup> | Previous (oral/inhalation) | 0.6 / NL             | EPA, 1991                 | Impact on the risk assessment de minimis. |
|                                 | Cancer Slope Factor [SF] (mg/kg-day) <sup>-1</sup>     | Current (oral/inhalation)  | 0.6 / 0.18           | EPA, 1999a                |   |
| Chloroform                      | Carcinogen Slope Factor [SF] (mg/kg-day) <sup>-1</sup> | Previous (oral/inhalation) | 0.0061 / NL          | EPA, 1991                 | Impact on the risk assessment de minimis. |
|                                 | Cancer Slope Factor [SF] (mg/kg-day) <sup>-1</sup>     | Current (oral/inhalation)  | 0.0061 / 0.081       | EPA, 1999a                |   |
| Trichloroethene                 | Carcinogen Slope Factor [SF] (mg/kg-day) <sup>-1</sup> | Previous (oral/inhalation) | 0.011 / 0.0000017    | EPA, 1991                 | Impact on the risk assessment de minimis. |
|                                 | Cancer Slope Factor [SF] (mg/kg-day) <sup>-1</sup>     | Current (oral/inhalation)  | 0.011 / 0.006        | EPA, 1999a / EPA, 1999c   |   |
| Benzene                         | Carcinogen Slope Factor [SF] (mg/kg-day) <sup>-1</sup> | Previous (oral/inhalation) | 0.029 / 0.027        | EPA, 1991                 | Impact on the risk assessment de minimis. |
|                                 | Cancer Slope Factor [SF] (mg/kg-day) <sup>-1</sup>     | Current (oral/inhalation)  | 0.029 / 0.027        | EPA, 1999a / EPA, 1999c   |   |
| Tetrachloroethene               | Carcinogen Slope Factor [SF] (mg/kg-day) <sup>-1</sup> | Previous (oral/inhalation) | 0.051 / 0.00000052   | EPA, 1991                 | Impact on the risk assessment de minimis. |
|                                 | Cancer Slope Factor [SF] (mg/kg-day) <sup>-1</sup>     | Current (oral/inhalation)  | 0.052 / 0.002        | EPA, 1999a                |   |

| Table 5. Confirmation of Chemical-Specific Toxicity Values |                                |                               |              |                            |   |
|--|--------------------------------|-------------------------------|--------------|----------------------------|---|
| Chemical of Concern  | Toxicity Value Name            | Toxicity Value                |              | Source<br>(oral/inhal.)    | Impact on Risk Assessment                 |
| COCs with Noncarcinogen Effects                            |                                |                               |              |                            |   |
| 1,1-Dichloroethane   | Reference Doses<br>(mg/kg-day) | Previous<br>(oral/inhalation) | 0.1 / 0.1    | EPA, 1991                  | Impact on the risk assessment de minimis. |
|  | Reference Doses<br>(mg/kg-day) | Current<br>(oral/inhalation)  | 0.1 / 0.14   | EPA, 1997                  |   |
| 1,1,1-Trichloroethane                                      | Reference Doses<br>(mg/kg-day) | Previous<br>(oral/inhalation) | 0.09 / 0.3   | EPA, 1991                  | Impact on the risk assessment de minimis. |
|  | Reference Doses<br>(mg/kg-day) | Current<br>(oral/inhalation)  | 0.035 / 0.29 | EPA, 1999b                 |   |
| trans-1,2-Dichloroethene                                   | Reference Doses<br>(mg/kg-day) | Previous<br>(oral/inhalation) | 0.02 / NL    | EPA, 1991                  | Impact on the risk assessment de minimis. |
|  | Reference Doses<br>(mg/kg-day) | Current<br>(oral/inhalation)  | 0.02 / 0.02  | EPA, 1999a /<br>EPA, 1999c |   |
| Chlorobenzene  | Reference Doses<br>(mg/kg-day) | Previous<br>(oral/inhalation) | 0.02 / 0.005 | EPA, 1991                  | Impact on the risk assessment de minimis. |
|  | Reference Doses<br>(mg/kg-day) | Current<br>(oral/inhalation)  | 0.02 / 0.017 | EPA, 1999a /<br>EPA, 1999b |   |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethane | cis-1,2-<br>Dichloroethane | trans-1,2-<br>Dichloroethane | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 107                    | 04/26/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 5.2             | <0.5           | <0.005  | NA      | <0.01    | NA     | 9.7            |
| 107                    | 10/31/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 9.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 107                    | 05/31/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 6.2             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 107                    | 04/21/1997 | <0.5                    | <0.5          | 3.9        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 14              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 107                    | 10/28/1997 | <0.5                    | <0.5          | 5.8        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | 0.6                       | 6.6             | <0.5           | 0.1     | NA      | 0.024    | NA     | 69             |
| 111                    | 11/07/1994 | <0.5                    | <0.5          | 4.9        | <0.5                    | <0.5                   | 2.3                    | 6.1                    | NA                         | <0.5                         | 3.8               | <0.5                      | 39              | <0.5           | 0.18    | <0.0005 | <0.01    | <0.002 | 10             |
| 111                    | 02/13/1995 | <0.5                    | <0.5          | 4.7        | NA                      | <0.5                   | 2.1                    | 16                     | 18                         | <0.5                         | 12                | 0.6                       | 110             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 111                    | 05/10/1995 | <0.5                    | <0.5          | 6.7        | NA                      | <0.5                   | <0.5                   | 7.8                    | 12                         | <0.5                         | 3.2               | <0.5                      | 20              | <0.5           | <0.005  | NA      | <0.01    | NA     | <0.1           |
| 111                    | 11/07/1995 | <0.5                    | <0.5          | 13         | <0.5                    | 1.3                    | <0.5                   | 0.5                    | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 114                    | 04/26/1995 | <0.5                    | <0.5          | <0.5       | NA                      | 20                     | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | 2.4             | <0.5           | 0.11    | NA      | <0.01    | NA     | 7.2            |
| 114                    | 11/02/1995 | <1                      | <1            | <1         | <1                      | 13                     | <1                     | <1                     | <1                         | <1                           | <1                | <1                        | <1              | <1             | NA      | NA      | NA       | NA     | NA             |
| 114                    | 05/01/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | 11                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 114                    | 11/04/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | 13                     | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | <0.005  | NA      | <0.01    | NA     | 11             |
| 114                    | 04/21/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | 1.6                    | <0.5                   | <0.5                   | <0.56                      | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 114                    | 10/21/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | 1.5                    | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.8             | <0.5           | 0.047   | NA      | <0.01    | NA     | 11             |
| 115                    | 11/07/1994 | DRY                     | DRY           | DRY        | DRY                     | DRY                    | DRY                    | DRY                    | NA                         | DRY                          | DRY               | DRY                       | DRY             | DRY            | NA      | NA      | NA       | NA     | NA             |
| 115                    | 11/07/1995 | DRY                     | DRY           | DRY        | DRY                     | DRY                    | DRY                    | DRY                    | DRY                        | DRY                          | DRY               | DRY                       | DRY             | DRY            | NA      | NA      | NA       | NA     | NA             |
| 117                    | 11/07/1994 | <2.5                    | 58            | <2.5       | 42                      | <2.5                   | 8.8                    | 15                     | NA                         | <2.5                         | 37                | <2.5                      | <2.5            | 33             | 0.25    | <0.0005 | <0.01    | <0.002 | <0.10          |
| 117                    | 01/27/1995 | <1.0                    | 31            | <1.0       | NA                      | <1.0                   | 5                      | 18                     | 98                         | <1.0                         | 9.7               | <1.0                      | 37              | 35             | NA      | NA      | NA       | NA     | NA             |
| 117                    | 05/10/1995 | <5.0                    | 55            | <5.0       | NA                      | <5.0                   | <5.0                   | 35                     | 160                        | <5.0                         | 18                | <5.0                      | 53              | 46             | 0.075   | NA      | <0.01    | NA     | 4              |
| 117                    | 07/26/1995 | <1.0                    | 8.4           | <1.0       | NA                      | <1.0                   | 3.8                    | 10.7                   | 45.4                       | <1.0                         | 4.4               | <1.0                      | 11.4            | 7.6            | NA      | NA      | NA       | NA     | NA             |
| 117                    | 11/07/1995 | <0.5                    | 5.1           | <0.5       | 9                       | <0.5                   | 2.9                    | 5                      | 36                         | <0.5                         | 3.8               | <0.5                      | 13              | 1.9            | NA      | NA      | NA       | NA     | NA             |
| 117                    | 02/09/1996 | <0.5                    | 5.2           | 0.5        | 7.3                     | <0.5                   | 2.9                    | 12                     | 31                         | <0.5                         | 6.8               | <0.5                      | 21              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 117                    | 05/02/1996 | <0.5                    | 3.3           | 1.1        | <0.5                    | <0.5                   | 3.4                    | 11                     | 33                         | <0.5                         | 7.2               | <0.5                      | 27              | 5              | NA      | NA      | NA       | NA     | NA             |
| 117                    | 07/15/1996 | <0.5                    | 1.1           | <0.5       | 1.2                     | <0.5                   | 0.9                    | 3                      | 12                         | <0.5                         | 1.8               | <0.5                      | 12              | 1.9            | NA      | NA      | NA       | NA     | NA             |
| 117                    | 11/04/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 6.6                        | <0.5                         | <0.5              | <0.5                      | 5               | <0.5           | 0.12    | NA      | <0.01    | NA     | 0.22           |
| 117                    | 01/24/1997 | <0.5                    | 1             | 0.6        | 0.8                     | <0.5                   | <0.5                   | 1.7                    | 20                         | <0.5                         | 0.8               | <0.5                      | 19              | 1.3            | NA      | NA      | NA       | NA     | NA             |
| 117                    | 04/24/1997 | <0.5                    | 4.6           | 1.3        | 6.4                     | <0.5                   | 1.9                    | 8.6                    | 40                         | <0.5                         | 6.3               | <0.5                      | 32              | 2.9            | NA      | NA      | NA       | NA     | NA             |
| 117                    | 08/11/1997 | <0.5                    | 1.4           | 0.7        | 1.4                     | <0.5                   | <0.5                   | 2                      | 16                         | <0.5                         | 3                 | <0.5                      | 14              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 117                    | 10/29/1997 | <0.5                    | NA            | <0.5       | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | 0.6               | <0.5                      | 4.3             | NA             | 0.043   | NA      | <0.01    | NA     | 0.71           |
| 118                    | 05/01/1995 | <0.5                    | <0.5          | 0.8        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.5             | <0.5           | 0.16    | NA      | <0.01    | NA     | <0.1           |
| 118                    | 10/17/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 0.8                    | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.01    | NA      | <0.01    | NA     | 5.6            |
| 118                    | 10/20/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.011   | NA      | <0.01    | NA     | 5.5            |
| 118                    | 12/21/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.98            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 120                    | 04/28/1995 | <0.5                    | <0.5          | 0.6        | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.3                        | <0.5                         | <0.5              | <0.5                      | 15              | <0.5           | 0.018   | NA      | <0.01    | NA     | 4.1            |
| 120                    | 10/31/1995 | <0.5                    | <0.5          | 1          | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.8                        | <0.5                         | <0.5              | <0.5                      | 8.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 120                    | 05/01/1996 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 8.5             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 120                    | 10/25/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 5.4             | <0.5           | 0.24    | NA      | <0.01    | NA     | 4.1            |
| 120                    | 05/01/1997 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 8.5             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 120                    | 04/29/1997 | <1.0                    | <1.0          | <1.0       | <1.0                    | <1.0                   | <1.0                   | <1.0                   | <1.0                       | <1.0                         | <1.0              | <1.0                      | 6.2             | <1.0           | NA      | NA      | NA       | NA     | NA             |
| 120                    | 10/23/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.5                        | <0.5                         | <0.5              | <0.5                      | 6.8             | <0.5           | 0.01    | NA      | <0.01    | NA     | 4.2            |
| 120                    | 11/04/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 4.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 120                    | 12/21/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 120                    | 10/27/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 124                    | 05/02/1995 | <0.5                    | <0.5          | 2.7        | NA                      | 0.6                    | 1.9                    | 0.8                    | <0.5                       | <0.5                         | 5.1               | <0.5                      | 3.9             | <0.5           | 0.032   | NA      | <0.01    | NA     | 32             |
| 124                    | 10/29/1996 | <0.5                    | <0.5          | 2.3        | <0.5                    | 0.7                    | 1.6                    | <0.5                   | <0.5                       | <0.5                         | 61                | <0.5                      | 3.9             | <0.5           | 0.037   | NA      | <0.01    | NA     | 57             |
| 124                    | 11/03/1997 | <0.5                    | <0.5          | 2.1        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 0.8               | <0.5                      | 0.7             | <0.5           | 0.02    | NA      | <0.01    | NA     | 8.6            |
| 201                    | 05/11/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | <10                    | 280                        | <10                          | <10               | <10                       | 160             | <10            | 0.03    | NA      | 0.1      | NA     | 24             |
| 201                    | 12/06/1995 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 220                    | 9.7                        | <5.0                         | 240               | <5.0                      | 210             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 201                    | 05/10/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 200                    | <10                        | <10                          | 220               | <10                       | 210             | <10            | NA      | NA      | NA       | NA     | NA             |
| 201                    | 11/12/1996 | <0.5                    | <0.5          | 2.1        | <0.5                    | <0.5                   | 0.8                    | 200                    | 11                         | <0.5                         | 260               | 0.8                       | 240             | <0.5           | 0.034   | NA      | 0.09     | NA     | 24             |
| 201                    | 05/06/1997 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 160                    | 11                         | <5.0                         | 180               | <5.0                      | 140             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 201                    | 10/26/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 14                     | 1.6                        | <0.5                         | 13                | <0.5                      | 21              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 201                    | 10/19/1999 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 45                     | 3.7                        | <2.5                         | 50                | <2.5                      | 58              | 2.5            | NA      | NA      | NA       | NA     | NA             |
| 201                    | 11/01/2000 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 62                     | 4.8                        | <2.5                         | 71                | <2.5                      | 73              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 201-81                 | 05/11/1995 | <50                     | <50           | <50        | NA                      | <50                    | <50                    | 1400                   | <50                        | <50                          | 180               | <50                       | <50             | <50            | NA      | NA      | NA       | NA     | NA             |
| 201-82                 | 05/17/1995 | <5.0                    | <5.0          | 6.2        | NA                      | <5.0                   | <5.0                   | 330                    | <5.0                       | <5.0                         | 92                | <5.0                      | 58              | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 201-OB1                | 05/11/1995 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | 1400                   | <50                        | <50                          | 180               | <50                       | <50             | <50            | NA      | NA      | NA       | NA     | NA             |
| 201-OB1                | 12/06/1995 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 1800                   | <10                        | <10                          | 360               | 45                        | 120             | <10            | NA      | NA      | NA       | NA     | NA             |
| 201-OB1                | 05/08/1996 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 1300                   | <25                        | <25                          | 250               | <25                       | 100             | <25            | NA      | NA      | NA       | NA     | NA             |
| 201-OB1                | 12/31/1996 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 1300                   | <5.0                       | <5.0                         | 230               | 7.5                       | 79              | <5.0           | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 201-OB1                | 06/19/1997 | <2.5                    | <5.0          | 6.2        | <5.0                    | <2.5                   | <5.0                   | 450                    | 11                         | <2.5                         | 120               | <2.5                      | 67              | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 201-OB1                | 11/06/1997 | <25                     | NA            | <25        | NA                      | <25                    | NA                     | 660                    | NA                         | <25                          | 290               | <25                       | 96              | NA             | NA      | NA      | NA       | NA     | NA             |
| 201-OB1                | 10/19/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | <5.0                   | <5.0                       | <5.0                         | 110               | <5.0                      | 43              | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 201-OB1                | 11/13/2000 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 190                    | <2.5                       | <2.5                         | 120               | <2.5                      | 46              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 201-OB2                | 05/17/1995 | <5                      | <5            | 6.2        | <5                      | <5                     | <5                     | 330                    | 5.7                        | <5                           | 92                | <5                        | 58              | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 201-OB2                | 12/07/1995 | <0.5                    | <0.5          | 19         | <0.5                    | <0.5                   | <0.5                   | 85                     | 12                         | <0.5                         | 28                | <0.5                      | 69              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 201-OB2                | 05/06/1996 | <1.0                    | <1.0          | 5.7        | <1.0                    | <1.0                   | <1.0                   | 23                     | 18                         | <1.0                         | 11                | <1.0                      | 160             | <1.0           | NA      | NA      | NA       | NA     | NA             |
| 201-OB2                | 11/17/1996 | <0.5                    | <0.5          | 2.2        | <0.5                    | <0.5                   | <0.5                   | 6                      | 25                         | <0.5                         | 6.2               | <0.5                      | 200             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 201-OB2                | 05/01/1997 | <0.5                    | <2.5          | 1          | <2.5                    | <0.5                   | <2.5                   | 6                      | <2.5                       | <0.5                         | 3.6               | <0.5                      | 86              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 201-OB2                | 10/30/1997 | <5                      | <5            | 17         | <5                      | <5                     | <5                     | 17                     | 11                         | <5                           | 15                | <5                        | 100             | <5             | NA      | NA      | NA       | NA     | NA             |
| 301                    | 12/02/1994 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | 160                    | NA                         | <50                          | <50               | 2900                      | 510             | <50            | 0.027   | <0.0005 | <0.01    | <0.002 | 36             |
| 301                    | 02/14/1995 | <5.0                    | <5.0          | 12         | NA                      | <5.0                   | 11                     | 170                    | 230                        | <5.0                         | 18                | 2200                      | 650             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 301                    | 05/12/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 730                    | 130                        | <25                          | <25               | 11000                     | 580             | <25            | 0.022   | NA      | <0.01    | NA     | 25             |
| 301                    | 12/05/1995 | <5.0                    | <0.5          | 5.4        | 26                      | <5.0                   | <5.0                   | 180                    | 83                         | <5.0                         | 27                | 2000                      | 490             | 50             | NA      | NA      | NA       | NA     | NA             |
| 301                    | 05/10/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 260                    | 210                        | <10                          | 83                | 2200                      | 780             | 110            | NA      | NA      | NA       | NA     | NA             |
| 301                    | 11/18/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | NA                     | NA                         | NA                           | NA                | NA                        | NA              | NA             | 0.029   | NA      | <0.01    | NA     | 31             |
| 301                    | 12/11/1996 | <10                     | <10           | <10        | 340                     | <10                    | <10                    | 340                    | 140                        | <10                          | 180               | 1600                      | 1000            | 110            | 0.029   | NA      | <0.01    | NA     | 31             |
| 301                    | 05/08/1997 | <50                     | <50           | <50        | 380                     | <50                    | <50                    | 160                    | <50                        | <50                          | 220               | 2200                      | 2100            | <50            | NA      | NA      | NA       | NA     | NA             |
| 301                    | 11/07/1997 | <50                     | NA            | <50        | NA                      | <50                    | NA                     | 190                    | NA                         | <50                          | 70                | 2100                      | 520             | NA             | 0.023   | NA      | <0.01    | NA     | 29             |
| 301                    | 11/12/1998 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | 140                    | 37                         | <25                          | 47                | 1100                      | 770             | <25            | NA      | NA      | NA       | NA     | NA             |
| 301                    | 10/21/1999 | NA                      | NA            | NA         | NA                      | <10                    | NA                     | 66                     | 32                         | <10                          | <10               | 580                       | 220             | <10            | NA      | NA      | NA       | NA     | NA             |
| 302                    | 12/02/1994 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 260                    | NA                         | <25                          | 350               | 2100                      | 2300            | <25            | 0.031   | <0.0005 | 0.076    | <0.002 | 38             |
| 302                    | 02/14/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 240                    | <25                        | <25                          | 390               | 2100                      | 2400            | <25            | NA      | NA      | NA       | NA     | NA             |
| 302                    | 05/12/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 350                    | NA                         | <25                          | 320               | 2500                      | 2200            | <25            | 0.022   | NA      | 0.031    | NA     | 36             |
| 302                    | 11/10/1995 | <25                     | <25           | <25        | 570                     | <25                    | <25                    | 330                    | <25                        | <25                          | 330               | 2100                      | 2200            | <25            | NA      | NA      | NA       | NA     | NA             |
| 302                    | 05/10/1996 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 120                    | <25                        | <25                          | 250               | 490                       | 1800            | <25            | NA      | NA      | NA       | NA     | NA             |
| 302                    | 11/18/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | NA                     | NA                         | NA                           | NA                | NA                        | NA              | NA             | 0.023   | NA      | 0.04     | NA     | 27             |
| 302                    | 12/11/1996 | <10                     | <10           | 11         | 240                     | <10                    | <10                    | 97                     | 140                        | <10                          | 200               | 530                       | 1200            | <10            | 0.023   | NA      | 0.04     | NA     | 27             |
| 302                    | 05/08/1997 | <10                     | <10           | <10        | 58                      | <10                    | <10                    | 21                     | <10                        | <10                          | 55                | 120                       | 810             | <10            | NA      | NA      | NA       | NA     | NA             |
| 302                    | 11/06/1997 | <10                     | NA            | <10        | NA                      | <10                    | NA                     | 190                    | NA                         | <10                          | 340               | 520                       | 1800            | NA             | 0.035   | NA      | <0.01    | NA     | 8.3            |
| 302                    | 11/05/1998 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | 44                     | <25                        | <25                          | 130               | 130                       | 1400            | <25            | NA      | NA      | NA       | NA     | NA             |
| 302                    | 10/21/1999 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | 380                    | NA                         | <50                          | 170               | 1800                      | 2500            | <50            | NA      | NA      | NA       | NA     | NA             |
| 302                    | 11/01/2000 | NA                      | NA            | NA         | NA                      | <120                   | NA                     | 290                    | <120                       | <120                         | 230               | 1200                      | 3300            | <120           | NA      | NA      | NA       | NA     | NA             |
| 303                    | 11/09/1994 | <12.5                   | 13            | <12.5      | <12.5                   | <12.5                  | <12.5                  | 80                     | NA                         | <12.5                        | <12.5             | 100                       | 1100            | <12.5          | 0.04    | <0.0005 | <0.01    | <0.002 | 7.7            |
| 303                    | 02/14/1995 | <12.5                   | <12.5         | <12.5      | NA                      | <12.5                  | <12.5                  | 92                     | <12.5                      | <12.5                        | <12.5             | 78                        | 1700            | <12.5          | NA      | NA      | NA       | NA     | NA             |
| 303                    | 05/12/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 60                     | <25                        | <25                          | <25               | 62                        | 1300            | <25            | 0.04    | NA      | <0.01    | NA     | 6.5            |
| 303                    | 12/05/1995 | <10                     | 58            | <10        | 39                      | <10                    | <10                    | 45                     | <10                        | <10                          | <10               | 71                        | 1400            | <10            | NA      | NA      | NA       | NA     | NA             |
| 303                    | 05/10/1996 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 110                    | <25                        | <25                          | <25               | 170                       | 1000            | <25            | NA      | NA      | NA       | NA     | NA             |
| 303                    | 11/18/1996 | 4.2                     | 44            | 1.7        | 52                      | 5.2                    | 1.2                    | 200                    | 5                          | <0.5                         | 8.4               | 640                       | 1900            | 5              | 0.043   | NA      | <0.01    | NA     | 12             |
| 303                    | 12/11/1996 | <25                     | 30            | <25        | 27                      | <25                    | <25                    | 280                    | <25                        | <25                          | <25               | 930                       | 2300            | <25            | 0.043   | NA      | <0.01    | NA     | 12             |
| 303                    | 05/09/1997 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | 140                    | <50                        | <50                          | <50               | 450                       | 1300            | <50            | NA      | NA      | NA       | NA     | NA             |
| 303                    | 11/07/1997 | <50                     | NA            | <50        | NA                      | <50                    | NA                     | <50                    | NA                         | <50                          | <50               | <50                       | 2000            | NA             | 0.041   | NA      | <0.01    | NA     | 7              |
| 303                    | 10/27/1998 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | 71                     | <25                        | <25                          | <25               | 150                       | 1300            | <25            | NA      | NA      | NA       | NA     | NA             |
| 303                    | 10/19/1999 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | <25                    | 32                         | <25                          | <25               | <25                       | 1000            | <25            | NA      | NA      | NA       | NA     | NA             |
| 303                    | 11/01/2000 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | <50                    | <50                        | <50                          | <50               | <50                       | 1300            | <50            | NA      | NA      | NA       | NA     | NA             |
| 304                    | 11/09/1994 | <25                     | 28            | <25        | <25                     | <25                    | <25                    | 130                    | NA                         | <25                          | 48                | 170                       | 260             | 240            | 0.085   | <0.0005 | <0.01    | <0.002 | 5.8            |
| 304                    | 02/14/1995 | <10                     | 79            | 12         | NA                      | <10                    | 10                     | 150                    | 94                         | <10                          | 41                | 220                       | 340             | 110            | NA      | NA      | NA       | NA     | NA             |
| 304                    | 05/12/1995 | <5.0                    | 150           | 6.3        | NA                      | <5.0                   | 15                     | 150                    | 140                        | <5.0                         | 76                | 200                       | 330             | 400            | 0.13    | NA      | <0.01    | NA     | 3.6            |
| 304                    | 05/10/1996 | <10                     | 66            | <10        | <10                     | <10                    | <10                    | 120                    | 370                        | <10                          | 46                | 130                       | 180             | 240            | NA      | NA      | NA       | NA     | NA             |
| 304                    | 11/18/1996 | <0.5                    | 48            | 2.8        | 39                      | 1.4                    | 6.7                    | 76                     | 48                         | 2.2                          | 38                | 140                       | 140             | 68             | 0.075   | NA      | <0.01    | NA     | 10             |
| 304                    | 12/11/1996 | <2.5                    | 53            | 7.4        | 66                      | <2.5                   | 7.6                    | 110                    | 69                         | <2.5                         | 74                | 140                       | 190             | 140            | 0.075   | NA      | <0.01    | NA     | 10             |
| 304                    | 05/07/1997 | <5.0                    | 28            | <50.0      | 54                      | <5.0                   | 7.4                    | 78                     | 110                        | <5.0                         | 73                | 53                        | 130             | 75             | NA      | NA      | NA       | NA     | NA             |
| 304                    | 10/27/1998 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | 76                     | 20                         | <12                          | 18                | 200                       | 160             | 55             | NA      | NA      | NA       | NA     | NA             |
| 304                    | 11/06/1997 | 6.6                     | NA            | 11         | NA                      | <5.0                   | NA                     | 200                    | NA                         | <5.0                         | 60                | 360                       | 180             | NA             | 0.019   | NA      | 0.025    | NA     | 21             |
| 304                    | 10/19/1999 | NA                      | NA            | NA         | NA                      | <10                    | NA                     | 22                     | 35                         | <10                          | 16                | 12                        | 400             | 68             | NA      | NA      | NA       | NA     | NA             |
| 304*                   | 11/10/1995 | <10                     | 110           | <10        | 210                     | <10                    | 22                     | 280                    | 310                        | <10                          | 140               | 200                       | 320             | 640            | NA      | NA      | NA       | NA     | NA             |
| 304                    | 11/01/2000 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | 9.5                    | 41                         | <12                          | 16                | <12                       | 260             | 190            | NA      | NA      | NA       | NA     | NA             |
| 305                    | 08/23/1994 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | 130                    | NA                         | <50                          | <50               | <50                       | 1400            | <50            | 0.02    | <0.0005 | <0.01    | <0.002 | 9.6            |
| 305                    | 02/14/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 120                    | NA                         | <25                          | <25               | <25                       | 2000            | <25            | NA      | NA      | NA       | NA     | NA             |
| 305                    | 05/12/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 110                    | <25                        | <25                          | <25               | <25                       | 1400            | <25            | NA      | NA      | NA       | NA     | NA             |
| 305                    | 11/10/1995 | <12.5                   | <12.5         | <12.5      | <12.5                   | <12.5                  | <12.5                  | 70                     | <12.5                      | <12.5                        | <12.5             | <12.5                     | 1500            | <12.5          | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 305                    | 05/09/1996 | <12.5                   | <12.5         | <12.5      | <12.5                   | <12.5                  | <12.5                  | 62                     | <12.5                      | <12.5                        | 14                | <12.5                     | 1800            | <12.5          | NA      | NA      | NA       | NA     | NA             |
| 305                    | 11/12/1996 | <2.5                    | 3.8           | 3.6        | <2.5                    | <2.5                   | <2.5                   | 46                     | 13                         | <2.5                         | 12                | 2.6                       | 1900            | 3.4            | NA      | NA      | NA       | NA     | NA             |
| 305                    | 05/09/1997 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | <50                    | <50                        | <50                          | <50               | <50                       | 2100            | <50            | NA      | NA      | NA       | NA     | NA             |
| 305                    | 11/10/1997 | <50                     | NA            | <50        | NA                      | <50                    | NA                     | <50                    | NA                         | <50                          | <50               | <50                       | 970             | NA             | NA      | NA      | NA       | NA     | NA             |
| 305                    | 12/06/1998 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | 28                     | <25                        | <50                          | <50               | <50                       | 1600            | <25            | NA      | NA      | NA       | NA     | NA             |
| 305                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | 28                     | <25                        | <25                          | <25               | <25                       | 1600            | <25            | NA      | NA      | NA       | NA     | NA             |
| 305                    | 12/01/2000 | NA                      | NA            | NA         | NA                      | 120                    | NA                     | <120                   | <120                       | <120                         | <120              | <120                      | 1800            | <120           | NA      | NA      | NA       | NA     | NA             |
| 306                    | 11/09/1994 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 19                     | NA                         | <10                          | <10               | <10                       | 130             | <10            | 0.012   | <0.0005 | <0.01    | <0.002 | 7              |
| 306                    | 02/14/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 2.7                    | 2                          | <0.5                         | <0.5              | <0.5                      | 62              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 306                    | 05/12/1995 | <0.5                    | <0.5          | 1          | NA                      | <0.5                   | 1                      | 14                     | 11                         | <0.5                         | 4.2               | <0.5                      | 180             | <0.5           | 0.008   | NA      | <0.01    | NA     | 6              |
| 306                    | 12/05/1995 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | 1.6                    | 1.1                        | <0.5                         | 1.1               | <0.5                      | 110             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 306                    | 01/05/1996 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | 1.6                    | 1.1                        | <0.5                         | 1.1               | <0.5                      | 110             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 306                    | 05/03/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | 54              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 306                    | 11/06/1996 | <0.5                    | 0.6           | 1          | <0.5                    | <0.5                   | <0.5                   | 0.6                    | 1.8                        | <0.5                         | <0.5              | <0.5                      | 57              | <0.5           | 0.011   | NA      | <0.01    | NA     | 6.7            |
| 306                    | 04/24/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | 100             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 306                    | 10/31/1997 | <2.5                    | NA            | <2.5       | NA                      | <2.5                   | NA                     | <2.5                   | NA                         | <2.5                         | <2.5              | <2.5                      | 150             | NA             | 0.011   | NA      | <0.01    | NA     | 6.4            |
| 306                    | 12/06/1998 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | <12                    | <12                        | <12                          | <12               | <12                       | 470             | <12            | NA      | NA      | NA       | NA     | NA             |
| 306                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | <25                    | <25                        | <25                          | <25               | <25                       | 1300            | <25            | NA      | NA      | NA       | NA     | NA             |
| 306                    | 12/01/2000 | NA                      | NA            | NA         | NA                      | <120                   | NA                     | <120                   | <120                       | <120                         | <120              | <120                      | 2500            | <120           | NA      | NA      | NA       | NA     | NA             |
| 307                    | 11/09/1994 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 23                     | NA                         | <10                          | <10               | <10                       | 250             | <10            | 0.009   | <0.0005 | <0.01    | <0.002 | 6.8            |
| 307                    | 02/14/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | 11                     | 16                         | <2.5                         | <2.5              | <2.5                      | 210             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 307                    | 05/12/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | 10                     | 20                         | <5.0                         | <5.0              | <5.0                      | 240             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 307                    | 11/10/1995 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 8.3                    | 12                         | <5.0                         | <5.0              | <5.0                      | 240             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 307                    | 05/09/1996 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 5.7                    | 12                         | <5.0                         | <5.0              | <5.0                      | 250             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 307                    | 11/12/1996 | <0.5                    | <0.5          | 2          | <0.5                    | <0.5                   | <0.5                   | 4                      | 15                         | <0.5                         | 3.8               | <0.5                      | 270             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 307                    | 05/09/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | 10                         | <2.5                         | <2.5              | <2.5                      | 210             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 307                    | 11/05/1997 | <5.0                    | NA            | <5.0       | NA                      | <5.0                   | NA                     | <5.0                   | NA                         | <5.0                         | 10                | <5.0                      | 440             | NA             | NA      | NA      | NA       | NA     | NA             |
| 307                    | 12/06/1998 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | <5                     | 6.5                        | <5                           | <5                | <5                        | 170             | <5             | NA      | NA      | NA       | NA     | NA             |
| 307                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | <5.0                   | <5.0                       | <5.0                         | <5.0              | <5.0                      | 210             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 307                    | 12/01/2000 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | <12                    | <12                        | <12                          | <12               | <12                       | 390             | <12            | NA      | NA      | NA       | NA     | NA             |
| 308                    | 11/09/1994 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 6.8                    | NA                         | <2.5                         | <2.5              | <2.5                      | 100             | <2.5           | 0.012   | <0.0005 | <0.01    | <0.002 | 5              |
| 308                    | 02/14/1995 | <0.5                    | <0.5          | 2.2        | NA                      | <0.5                   | <0.5                   | 3.9                    | 38                         | <0.5                         | 2.1               | <0.5                      | 98              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 308                    | 05/12/1995 | <2.5                    | 5             | 3.7        | NA                      | <2.5                   | <2.5                   | 4.2                    | 46                         | <2.5                         | <2.5              | <2.5                      | 140             | <2.5           | 0.007   | NA      | <0.01    | NA     | 4.3            |
| 308                    | 12/05/1995 | <0.5                    | 2.1           | 3.3        | 2.9                     | <0.5                   | <0.5                   | 4.2                    | 48                         | <0.5                         | 3                 | <0.5                      | 110             | 1.6            | NA      | NA      | NA       | NA     | NA             |
| 308                    | 05/03/1996 | <2.5                    | 5.2           | <2.5       | <2.5                    | <2.5                   | <2.5                   | 5.4                    | 32                         | <2.5                         | <2.5              | <2.5                      | 100             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 308                    | 11/06/1996 | <0.5                    | 1.3           | 3          | 1.2                     | <0.5                   | <0.5                   | 2.6                    | 47                         | <0.5                         | 2.7               | <0.5                      | 110             | 0.8            | 0.01    | NA      | <0.01    | NA     | 5.1            |
| 308                    | 05/02/1997 | <0.5                    | 1.6           | 1          | 0.6                     | <0.5                   | <0.5                   | 1.6                    | 22                         | <0.5                         | 1.8               | <0.5                      | 74              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 308                    | 12/09/1998 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 27                         | <2.5                         | <2.5              | <2.5                      | 100             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 308                    | 10/31/1997 | <0.5                    | NA            | 3.8        | NA                      | <0.5                   | NA                     | 1.5                    | NA                         | <0.5                         | 2.6               | <0.5                      | 120             | NA             | 0.0096  | NA      | <0.01    | NA     | 4.6            |
| 308                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 29                         | <2.5                         | <2.5              | <2.5                      | 100             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 308                    | 12/01/2000 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | <5                     | 11                         | <5                           | <5                | <5                        | 84              | <5             | NA      | NA      | NA       | NA     | NA             |
| 309                    | 11/09/1994 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 20                     | NA                         | <10                          | <10               | <10                       | 130             | <10            | 0.025   | <0.0005 | <0.01    | <0.002 | 6.5            |
| 309                    | 02/14/1995 | <0.5                    | <0.5          | 2.6        | NA                      | <0.5                   | <0.5                   | 53                     | 50                         | <0.5                         | 30                | <0.5                      | 120             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 309                    | 05/12/1995 | <2.5                    | <2.5          | 4.4        | NA                      | <2.5                   | <2.5                   | 7.3                    | 31                         | <2.5                         | 10                | <2.5                      | 140             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 309                    | 11/10/1995 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 6                      | 45                         | <2.5                         | 6.9               | <2.5                      | 100             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 309                    | 05/03/1996 | <2.5                    | <2.5          | 8.2        | <2.5                    | <2.5                   | 6.2                    | <2.5                   | 22                         | <2.5                         | 6.3               | <2.5                      | 95              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 309                    | 11/06/1996 | <2.5                    | <2.5          | 5          | <2.5                    | <2.5                   | <2.5                   | 4.6                    | 24                         | <2.5                         | 5.4               | <2.5                      | 95              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 309                    | 05/02/1997 | <0.5                    | <0.5          | 1.4        | <0.5                    | <0.5                   | <0.5                   | 2.5                    | 20                         | <0.5                         | 4.1               | <0.5                      | 77              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 309                    | 10/31/1997 | <0.5                    | NA            | 2.4        | NA                      | <0.5                   | NA                     | 1.8                    | NA                         | <0.5                         | 4.7               | <0.5                      | 110             | NA             | NA      | NA      | NA       | NA     | NA             |
| 309                    | 12/06/1998 | NA                      | NA            | NA         | NA                      | <1.2                   | NA                     | 1.8                    | 15                         | <1.2                         | 3.1               | <1.2                      | 66              | <1.2           | NA      | NA      | NA       | NA     | NA             |
| 309                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <1.0                   | NA                     | <1.0                   | 11                         | <1.0                         | 1.8               | <1.0                      | 48              | <1.0           | NA      | NA      | NA       | NA     | NA             |
| 309                    | 12/01/2000 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 13                         | <2.5                         | <2.5              | <2.5                      | 51              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 310                    | 11/09/1994 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 81                     | NA                         | <5.0                         | 40                | <5.0                      | 140             | <5.0           | 0.07    | <0.0005 | 0.018    | <0.002 | 9.9            |
| 310                    | 02/14/1995 | <0.5                    | <0.5          | 3.8        | NA                      | <0.5                   | <0.5                   | 13                     | 50                         | <0.5                         | 15                | <0.5                      | 110             | 0.6            | NA      | NA      | NA       | NA     | NA             |
| 310                    | 05/12/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | 33                     | 32                         | <5.0                         | 17                | <5.0                      | 130             | <5.0           | 0.043   | NA      | 0.011    | NA     | 8              |
| 310                    | 12/05/1995 | <0.5                    | 1.2           | 2.6        | <0.5                    | <0.5                   | <0.5                   | 17                     | 29                         | <0.5                         | 14                | <0.5                      | 83              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 310                    | 05/03/1996 | <1.0                    | 2.1           | 4.2        | <1.0                    | <1.0                   | <1.0                   | 9.7                    | 17                         | <1.0                         | 11                | <1.0                      | 78              | <1.0           | NA      | NA      | NA       | NA     | NA             |
| 310                    | 11/06/1996 | <0.5                    | 1.2           | 2          | 0.7                     | <0.5                   | <0.5                   | 4.7                    | 15                         | <0.5                         | 7.9               | <0.5                      | 55              | <0.5           | 0.03    | NA      | <0.01    | NA     | 8.4            |
| 310                    | 05/02/1997 | <0.5                    | 1.3           | 1.8        | <0.5                    | <0.5                   | <0.5                   | 5.3                    | 12                         | <0.5                         | 6.3               | <0.5                      | 55              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 310                    | 10/31/1997 | <0.5                    | NA            | 2.4        | NA                      | <0.5                   | NA                     | 3                      | NA                         | <0.5                         | 7.6               | <0.5                      | 57              | NA             | 0.029   | NA      | <0.01    | NA     | 7.2            |
| 310                    | 12/06/1998 | NA                      | NA            | NA         | NA                      | <1                     | NA                     | 3.6                    | 9.4                        | <1                           | 5.9               | <1                        | 46              | <1             | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 310                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 2.4                    | 7.8                        | <0.5                         | 3.7               | <0.5                      | 36              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 310                    | 12/01/2000 | NA                      | NA            | NA         | NA                      | <1                     | NA                     | 1.9                    | 7                          | <1                           | 3.2               | <1                        | 3.1             | <1             | NA      | NA      | NA       | NA     | NA             |
| 311                    | 11/09/1994 | <2.5                    | <2.5          | 3.2        | <2.5                    | <2.5                   | <2.5                   | 22                     | NA                         | <2.5                         | 15                | <2.5                      | 64              | <2.5           | 0.078   | <0.0005 | <0.01    | <0.002 | 12             |
| 311                    | 02/14/1995 | <0.5                    | <0.5          | 3.1        | NA                      | <0.5                   | 0.6                    | 22                     | 53                         | <0.5                         | 13                | <0.5                      | 95              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 311                    | 05/12/1995 | <2.5                    | <2.5          | 3.8        | NA                      | <2.5                   | <2.5                   | 16                     | 35                         | <2.5                         | 7.1               | <2.5                      | 89              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 311                    | 12/05/1995 | <0.5                    | <0.5          | 2.4        | <0.5                    | <0.5                   | <0.5                   | 9.3                    | 23                         | <0.5                         | 5.9               | <0.5                      | 36              | 0.6            | NA      | NA      | NA       | NA     | NA             |
| 311                    | 05/03/1996 | <0.5                    | <0.5          | 2.7        | <0.5                    | <0.5                   | <0.5                   | 4.2                    | 8.2                        | <0.5                         | 4.2               | <0.5                      | 21              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 311                    | 11/01/1996 | <0.5                    | <0.5          | 2.2        | <0.5                    | <0.5                   | <0.5                   | 2.2                    | 8.7                        | <0.5                         | 4.4               | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 311                    | 04/23/1997 | <0.5                    | <0.5          | 1.9        | <0.5                    | <0.5                   | <0.5                   | 1.4                    | 5.8                        | <0.5                         | 3.1               | <0.5                      | 14.3            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 311                    | 10/29/1997 | <0.5                    | NA            | 0.9        | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | 1.6               | <0.5                      | 6.5             | NA             | NA      | NA      | NA       | NA     | NA             |
| 311                    | 12/06/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | 1.1               | <0.5                      | 4.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 311                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.96                       | <0.5                         | 1.2               | <0.5                      | 4.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 311                    | 12/01/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.75                       | <0.5                         | 1.1               | <0.5                      | 3.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 312                    | 11/09/1994 | <0.5                    | <0.5          | 1          | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | 1.2               | <0.5                      | <0.5            | <0.5           | 0.044   | <0.0005 | <0.01    | <0.002 | 14             |
| 312                    | 02/14/1995 | <0.5                    | <0.5          | 0.6        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 0.9               | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 312                    | 05/12/1995 | <0.5                    | <0.5          | 1.1        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 0.8               | <0.5                      | <0.5            | <0.5           | 0.026   | NA      | <0.01    | NA     | 11             |
| 312                    | 11/10/1995 | <0.5                    | <0.5          | 5.3        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 1                 | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 312                    | 04/30/1996 | <0.5                    | <0.5          | 1          | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 1.5               | <0.5                      | 1               | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 312                    | 10/24/1996 | <0.5                    | <0.5          | 2.2        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 0.9               | <0.5                      | 0.8             | <0.5           | 0.059   | NA      | <0.01    | NA     | 10             |
| 312                    | 04/17/1997 | <0.5                    | <0.5          | 2.9        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 0.7               | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 312                    | 10/28/1997 | <0.5                    | NA            | 1.6        | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | 1                 | <0.5                      | 0.8             | NA             | 0.024   | NA      | <0.01    | NA     | 10             |
| 312                    | 12/06/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | 1                 | <0.5                      | 1.1             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 312                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | 1                 | <0.5                      | 0.88            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 312                    | 12/01/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | 0.74              | <0.5                      | 0.91            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 313                    | 11/09/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.037   | <0.0005 | <0.01    | <0.002 | 13             |
| 313                    | 02/14/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 313                    | 05/12/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.3             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 313                    | 12/05/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 313                    | 04/24/1996 | <0.5                    | <0.5          | 0.8        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.2             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 313                    | 10/22/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 313                    | 04/17/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 313                    | 10/22/1997 | <0.5                    | NA            | 0.6        | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | 0.8             | NA             | NA      | NA      | NA       | NA     | NA             |
| 313                    | 12/06/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.2             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 313                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1               | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 313                    | 12/01/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.69                       | <0.5                         | <0.5              | <0.5                      | 12              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 503                    | 05/02/1995 | <0.5                    | <0.5          | 0.6        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.049   | NA      | <0.01    | NA     | 9              |
| 503                    | 10/27/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 503                    | 04/24/1996 | <0.5                    | <0.5          | 0.8        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 503                    | 10/18/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.038   | NA      | <0.01    | NA     | 9.7            |
| 503                    | 04/16/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 503                    | 10/20/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.027   | NA      | <0.01    | NA     | 9.3            |
| 503                    | 11/12/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 503                    | 12/21/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 503                    | 12/05/2000 | <1                      | <1            | <1         | <1                      | <1                     | <1                     | <1                     | <1                         | <1                           | <1                | <1                        | <1              | <1             | NA      | NA      | NA       | NA     | NA             |
| 504                    | 05/09/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 220                    | 530                        | <10                          | 21                | <10                       | 330             | <10            | 0.005   | NA      | <0.01    | NA     | 4.4            |
| 504                    | 05/08/1996 | <12.5                   | <12.5         | <12.5      | <12.5                   | <12.5                  | <12.5                  | 180                    | 240                        | <12.5                        | 18                | <12.5                     | 770             | <12.5          | NA      | NA      | NA       | NA     | NA             |
| 504                    | 05/07/1997 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 100                    | 130                        | <25                          | <25               | <25                       | 920             | <25            | NA      | NA      | NA       | NA     | NA             |
| 505                    | 05/03/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.007   | NA      | <0.01    | NA     | 0.19           |
| 508                    | 05/03/1995 | <0.5                    | <0.5          | 1.7        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.11    | NA      | <0.01    | NA     | 10             |
| 509                    | 05/04/1995 | <0.5                    | <0.5          | 3.7        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 8.9               | <0.5                      | 510             | <0.5           | 0.009   | NA      | <0.01    | NA     | 3.8            |
| 509                    | 05/08/1996 | <12.5                   | <12.5         | <12.5      | <12.5                   | <12.5                  | <12.5                  | <12.5                  | 57                         | <12.5                        | 18                | <12.5                     | 920             | <12.5          | NA      | NA      | NA       | NA     | NA             |
| 509                    | 05/12/1997 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | <25                    | 110                        | <25                          | <25               | <25                       | 1200            | <25            | NA      | NA      | NA       | NA     | NA             |
| 602                    | 10/24/1994 | <0.5                    | <0.5          | 7.3        | <0.5                    | 0.9                    | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | 1.7                       | 40              | <0.5           | 0.017   | <0.0005 | <0.01    | <0.002 | 6.2            |
| 602                    | 01/27/1995 | <0.5                    | <0.5          | 0.8        | NA                      | <0.5                   | <0.5                   | <0.5                   | 0.6                        | <0.5                         | <0.5              | <0.5                      | 3.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 602                    | 04/27/1995 | <0.5                    | <0.5          | 1          | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 3.4             | <0.5           | 0.015   | NA      | <0.01    | NA     | 12             |
| 602                    | 10/30/1995 | <0.5                    | <0.5          | 0.8        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.5                        | <0.5                         | <0.5              | <0.5                      | 2.3             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 602                    | 04/25/1996 | <0.5                    | <0.5          | 2.1        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.6                        | <0.5                         | <0.5              | <0.5                      | 2.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 602                    | 10/26/1996 | <0.5                    | <0.5          | 2.3        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2                          | <0.5                         | <0.5              | <0.5                      | 3               | <0.5           | 0.016   | NA      | <0.01    | NA     | 13             |
| 602                    | 04/18/1997 | <0.5                    | <0.5          | 1.7        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.8             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 602                    | 10/23/1997 | <0.5                    | NA            | 2          | NA                      | <0.5                   | NA                     | 0.6                    | NA                         | <0.5                         | 0.6               | <0.5                      | 1.5             | NA             | 0.012   | NA      | <0.01    | NA     | 12             |
| 602                    | 04/29/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 0.57                   | 0.9                        | <0.5                         | <0.5              | <0.5                      | 1.3             | <0.5           | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 602                    | 11/15/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.2             | <0.5           | 0.012   | NA      | 0.001    | NA     | NA             |
| 602                    | 04/28/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.3             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 602                    | 12/21/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.2             | <0.5           | 0.012   | NA      | <0.002   | NA     | 7.8            |
| 602                    | 04/03/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.1             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 602                    | 11/02/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.3             | <0.5           | 0.01    | NA      | <0.002   | NA     | 7.5            |
| 604                    | 10/24/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | 2.6             | <0.5           | 0.02    | <0.0005 | <0.01    | <0.002 | 4.6            |
| 604                    | 01/26/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 604                    | 04/27/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 11              | <0.5           | 0.034   | NA      | <0.01    | NA     | 3.8            |
| 604                    | 10/30/1995 | <0.5                    | <0.5          | 0.9        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 6.8             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 604                    | 04/30/1996 | <0.5                    | <0.5          | 1.1        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 1.1               | <0.5                      | 11              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 604                    | 10/28/1996 | <0.5                    | <0.5          | 0.9        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 9               | <0.5           | 0.024   | NA      | <0.01    | NA     | 4.8            |
| 604                    | 04/16/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 13              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 604                    | 10/27/1997 | <0.5                    | NA            | 0.9        | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | 7.2             | NA             | 0.012   | NA      | <0.01    | NA     | 4.6            |
| 604                    | 04/29/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 5.2             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 604                    | 11/05/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 5.5             | <0.5           | 0.02    | NA      | 0.0019   | NA     | 3.1            |
| 604                    | 04/28/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 6               | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 604                    | 12/15/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 4.7             | <0.5           | 0.017   | NA      | <0.0020  | NA     | 3.7            |
| 604                    | 04/14/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 6.7             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 604                    | 11/02/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <5                     | <5                         | <5                           | <5                | <5                        | 6               | <5             | 0.019   | NA      | <0.002   | NA     | 3.9            |
| 701                    | 05/19/1995 | <0.5                    | <0.5          | 1.5        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | 1                         | 2.2             | <0.5           | 0.015   | NA      | <0.01    | NA     | 8.4            |
| 701                    | 07/26/1995 | <0.5                    | <0.5          | 0.9        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 701                    | 11/06/1995 | <0.5                    | <0.5          | 1.1        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 701                    | 04/23/1996 | <0.5                    | <0.5          | 1.3        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 6.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 701                    | 10/24/1996 | <0.5                    | <0.5          | 1.1        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.03    | NA      | <0.01    | NA     | 11             |
| 701                    | 04/17/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 701                    | 11/13/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.014   | NA      | <0.01    | NA     | 11             |
| 701                    | 12/18/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 701                    | 12/15/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 701                    | 11/20/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 702                    | 05/11/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 320                    | 11                         | <10                          | 180               | <10                       | 180             | <10            | 0.015   | NA      | 0.089    | NA     | 16             |
| 702                    | 11/10/1995 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 260                    | <10                        | <10                          | 150               | <10                       | 140             | <10            | NA      | NA      | NA       | NA     | NA             |
| 702                    | 05/08/1996 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 160                    | 22                         | <5.0                         | 180               | <5.0                      | 220             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 702                    | 11/11/1996 | <1.0                    | <1.0          | 4.1        | <1.0                    | <1.0                   | <1.0                   | 190                    | 14                         | <1.0                         | 160               | <1.0                      | 200             | <1.0           | 0.023   | NA      | 0.07     | NA     | 24             |
| 702                    | 05/06/1997 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 170                    | 15                         | <5.0                         | 140               | <5.0                      | 190             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 702                    | 11/05/1997 | <0.5                    | NA            | 19         | NA                      | <0.5                   | NA                     | 24                     | NA                         | <0.5                         | 25                | <0.5                      | 18              | NA             | 0.13    | NA      | <0.01    | NA     | 3              |
| 702                    | 10/23/1998 | NA                      | NA            | NA         | NA                      | 10                     | NA                     | 290                    | 10                         | <5                           | 210               | <5                        | 150             | <5             | NA      | NA      | NA       | NA     | NA             |
| 702                    | 10/19/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | 370                    | 12                         | <5.0                         | 250               | <5.0                      | 210             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 702                    | 10/31/2000 | NA                      | NA            | NA         | NA                      | <1                     | NA                     | 76                     | 15                         | <1                           | 96                | <1                        | 120             | <1             | NA      | NA      | NA       | NA     | NA             |
| 703                    | 05/11/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | 300                    | 14                         | <5.0                         | 220               | <5.0                      | 170             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 703                    | 11/10/1995 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 250                    | 7.8                        | <5.0                         | 200               | <5.0                      | 150             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 703                    | 05/08/1996 | <2.5                    | <2.5          | 12         | <2.5                    | <2.5                   | <2.5                   | 120                    | 9.8                        | <2.5                         | 100               | <2.5                      | 110             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 703                    | 11/11/1996 | <0.5                    | <0.5          | 13         | <0.5                    | <0.5                   | <0.5                   | 130                    | 9.1                        | <0.5                         | 110               | <0.5                      | 100             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 703                    | 05/05/1997 | <2.5                    | <2.5          | 7.1        | <2.5                    | <2.5                   | <2.5                   | 92                     | 8.2                        | <2.5                         | 66                | <2.5                      | 80              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 703                    | 11/04/1997 | <0.5                    | NA            | 10         | NA                      | <0.5                   | NA                     | 7.2                    | NA                         | <0.5                         | 42                | <0.5                      | 22              | NA             | NA      | NA      | NA       | NA     | NA             |
| 703                    | 10/26/1998 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | 30                     | 9.4                        | <5                           | 58                | <5                        | 92              | <5             | NA      | NA      | NA       | NA     | NA             |
| 703                    | 10/19/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | 38                     | 9                          | <5.0                         | 51                | <5.0                      | 98              | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 703                    | 10/31/2000 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 6.1                        | <2.5                         | 42                | <2.5                      | 66              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 704                    | 05/11/1995 | <0.5                    | <0.5          | 4.5        | NA                      | <0.5                   | <0.5                   | 50                     | 8                          | <0.5                         | 75                | 2.1                       | 160             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 704                    | 11/10/1995 | <0.5                    | <0.5          | 11         | <0.5                    | <0.5                   | <0.5                   | 60                     | 10                         | <0.5                         | 43                | <0.5                      | 77              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 704                    | 05/03/1996 | <0.5                    | <0.5          | 8.5        | <0.5                    | <0.5                   | 1.1                    | 39                     | 10                         | <0.5                         | 27                | <0.5                      | 96              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 704                    | 11/06/1996 | <0.5                    | <0.5          | 3.9        | <0.5                    | <0.5                   | 0.6                    | 22                     | 14                         | <0.5                         | 26                | <0.5                      | 150             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 704                    | 05/01/1997 | <0.5                    | <0.5          | 2.8        | <0.5                    | <0.5                   | <0.5                   | 17                     | 9.2                        | <0.5                         | 21                | <0.5                      | 92              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 704                    | 10/30/1997 | <5.0                    | NA            | 13         | NA                      | <5.0                   | NA                     | 31                     | NA                         | <5.0                         | 41                | <5.0                      | 170             | NA             | NA      | NA      | NA       | NA     | NA             |
| 704                    | 10/26/1994 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 11                     | 6.8                        | <2.5                         | 13                | <2.5                      | 52              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 704                    | 10/19/1999 | NA                      | NA            | NA         | NA                      | 2.5                    | NA                     | 12                     | 8.1                        | 2.5                          | 15                | 2.5                       | 69              | 2.5            | NA      | NA      | NA       | NA     | NA             |
| 704                    | 10/31/2000 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 9.8                    | 8.1                        | <2.5                         | 10                | <2.5                      | 571             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 705                    | 05/11/1995 | <0.5                    | <0.5          | 0.6        | NA                      | <0.5                   | 0.7                    | 23                     | 5                          | <0.5                         | 29                | <0.5                      | 44              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 705                    | 11/10/1995 | <0.5                    | <0.5          | 13         | <0.5                    | <0.5                   | <0.5                   | 16                     | 1.3                        | <0.5                         | 22                | <0.5                      | 14              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 705                    | 05/02/1996 | <0.5                    | <0.5          | 3.6        | <0.5                    | <0.5                   | 0.6                    | 7.6                    | 2.8                        | <0.5                         | 15                | <0.5                      | 29              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 705                    | 11/06/1996 | <0.5                    | <0.5          | 0.9        | <0.5                    | <0.5                   | <0.5                   | 12                     | 4.6                        | <0.5                         | 26                | 0.6                       | 47              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 705                    | 04/28/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 14                     | 4.8                        | <0.5                         | 27                | <0.5                      | 36              | <0.5           | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05 | 10             |
| 705                    | 10/30/1997 | <1.0                    | NA            | 2          | NA                      | <1.0                   | NA                     | 4.6                    | NA                         | <1.0                         | 15                | <1.0                      | 35              | NA             | NA      | NA      | NA       | NA   | NA             |
| 705                    | 10/26/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 11                     | 3.2                        | <0.5                         | 13                | <0.5                      | 26              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 705                    | 10/19/1999 | NA                      | NA            | NA         | NA                      | <1.0                   | NA                     | 6.7                    | 3.1                        | <1.0                         | 10                | <1.0                      | 28              | <1.0           | NA      | NA      | NA       | NA   | NA             |
| 705                    | 10/31/2000 | NA                      | NA            | NA         | NA                      | <1                     | NA                     | 6.8                    | 4                          | <1                           | 12                | <1                        | 37              | <1             | NA      | NA      | NA       | NA   | NA             |
| 706                    | 05/11/1995 | <0.5                    | <0.5          | 4.8        | NA                      | <0.5                   | <0.5                   | 28                     | 0.8                        | <0.5                         | 22                | <0.5                      | 7.6             | <0.5           | 0.045   | NA      | 0.014    | NA   | 27             |
| 706                    | 11/10/1995 | <0.5                    | <0.5          | 27         | <0.5                    | <0.5                   | <0.5                   | 12                     | <0.5                       | <0.5                         | 13                | <0.5                      | 4.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 706                    | 05/02/1996 | <0.5                    | <0.5          | 15         | <0.5                    | <0.5                   | <0.5                   | 4.7                    | <0.5                       | <0.5                         | 5.5               | <0.5                      | 2.9             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 706                    | 10/30/1996 | <0.5                    | <0.5          | 9.6        | <0.5                    | <0.5                   | <0.5                   | 6.9                    | 0.5                        | <0.5                         | 12                | <0.5                      | 5.4             | <0.5           | 0.042   | NA      | 0.01     | NA   | 19             |
| 706                    | 04/24/1997 | <0.5                    | <0.5          | 9.8        | <0.5                    | <0.5                   | <0.5                   | 6.2                    | <0.5                       | <0.5                         | 9.9               | <0.5                      | 4.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 706                    | 10/29/1997 | <0.5                    | NA            | 18         | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | 3.5               | <0.5                      | 0.9             | NA             | 0.088   | NA      | <0.01    | NA   | 2              |
| 706                    | 10/26/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 2.3                    | <0.5                       | <0.5                         | 3.1               | <0.5                      | 2               | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 706                    | 10/19/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 3.5                    | <0.5                       | <0.5                         | 5.3               | <0.5                      | 3.8             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 706                    | 11/01/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 3.6                    | <0.5                       | <0.5                         | 6.7               | <0.5                      | 3.9             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 707                    | 05/11/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 1600                   | <10                        | <10                          | 270               | 53                        | 82              | <10            | NA      | NA      | NA       | NA   | NA             |
| 707                    | 11/10/1995 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 1400                   | <25                        | <25                          | 200               | <25                       | 84              | <25            | NA      | NA      | NA       | NA   | NA             |
| 707                    | 05/08/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 860                    | <10                        | <10                          | 160               | <10                       | 93              | <10            | NA      | NA      | NA       | NA   | NA             |
| 707                    | 11/12/1996 | <2.5                    | <2.5          | 7.3        | <2.5                    | <2.5                   | <2.5                   | 950                    | 4.4                        | <2.5                         | 140               | 6.6                       | 59              | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 707                    | 05/07/1997 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 570                    | <25                        | <25                          | 110               | <25                       | 53              | <25            | NA      | NA      | NA       | NA   | NA             |
| 707                    | 11/06/1997 | <10                     | NA            | <10        | NA                      | <10                    | NA                     | 380                    | NA                         | <10                          | 150               | <10                       | 70              | NA             | NA      | NA      | NA       | NA   | NA             |
| 707                    | 10/26/1998 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | 240                    | <5                         | <5                           | 259               | <5                        | 31              | <5             | NA      | NA      | NA       | NA   | NA             |
| 707                    | 10/19/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | 360                    | <5.0                       | <5.0                         | 110               | <5.0                      | 58              | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 707                    | 11/01/2000 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 160                    | 2.7                        | <2.5                         | 61                | <2.5                      | 39              | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 713                    | 05/11/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 4300                   | <25                        | <25                          | 330               | 300                       | 110             | <25            | NA      | NA      | NA       | NA   | NA             |
| 713                    | 11/10/1995 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | 1200                   | <50                        | <50                          | 320               | 100                       | 86              | <50            | NA      | NA      | NA       | NA   | NA             |
| 713                    | 05/09/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 760                    | <10                        | <10                          | 370               | 310                       | 59              | <10            | NA      | NA      | NA       | NA   | NA             |
| 713                    | 11/12/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 740                    | <10                        | <10                          | 440               | 260                       | 52              | <10            | NA      | NA      | NA       | NA   | NA             |
| 713                    | 05/07/1997 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 710                    | <25                        | <25                          | 430               | 55                        | <25             | <25            | NA      | NA      | NA       | NA   | NA             |
| 713                    | 11/06/1997 | <5.0                    | NA            | <5.0       | NA                      | <5.0                   | NA                     | 480                    | NA                         | <5.0                         | 390               | 14                        | 32              | NA             | 0.062   | NA      | <0.01    | NA   | 36             |
| 713                    | 10/27/1998 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | 570                    | <12                        | <12                          | 120               | <12                       | 24              | <12            | NA      | NA      | NA       | NA   | NA             |
| 713                    | 10/22/1999 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | 760                    | <25                        | <25                          | 210               | <25                       | 31              | <25            | NA      | NA      | NA       | NA   | NA             |
| 713                    | 11/02/2000 | NA                      | NA            | NA         | NA                      | <1                     | NA                     | 430                    | 1.7                        | <1                           | 200               | <1                        | 25              | <1             | NA      | NA      | NA       | NA   | NA             |
| 714                    | 05/11/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 790                    | <25                        | <25                          | 340               | 410                       | 88              | <25            | NA      | NA      | NA       | NA   | NA             |
| 714                    | 11/10/1995 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 190                    | <10                        | <10                          | 180               | 520                       | 17              | <10            | NA      | NA      | NA       | NA   | NA             |
| 714                    | 05/09/1996 | <10                     | <10           | <10        | <10                     | 23                     | 17                     | 140                    | <10                        | <10                          | 210               | 280                       | 18              | <10            | NA      | NA      | NA       | NA   | NA             |
| 714                    | 11/12/1996 | <0.5                    | <0.5          | 3          | <0.5                    | 13                     | 9.6                    | 130                    | 0.6                        | <0.5                         | 160               | 150                       | 9.2             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 714                    | 05/06/1997 | <5.0                    | <5.0          | <5.0       | <5.0                    | 7.7                    | 8.5                    | 170                    | <5.0                       | <5.0                         | 280               | 82                        | 16              | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 714                    | 11/05/1997 | <5.0                    | NA            | <5.0       | NA                      | <5.0                   | NA                     | 440                    | NA                         | <5.0                         | 360               | 180                       | 27              | NA             | NA      | NA      | NA       | NA   | NA             |
| 714                    | 10/27/1998 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 82                     | <2.5                       | <2.5                         | 70                | 40                        | 9               | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 714                    | 10/21/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 4.2                    | <0.5                       | <0.5                         | 17                | 1.1                       | 2.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 714                    | 11/01/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 3.5                    | <0.5                       | <0.5                         | 13                | 1.2                       | 1.2             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 715                    | 05/18/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | 150                    | <5.0                       | <5.0                         | 150               | 210                       | 19              | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 715                    | 11/15/1995 | <2.5                    | <2.5          | 3.7        | <2.5                    | <2.5                   | 4.6                    | 96                     | <2.5                       | <2.5                         | 130               | 310                       | 9.8             | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 715                    | 05/07/1996 | <2.5                    | <2.5          | 4.6        | <2.5                    | <2.5                   | 3.6                    | 41                     | <2.5                       | <2.5                         | 64                | 73                        | 8.8             | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 715                    | 11/07/1996 | <0.5                    | <0.5          | 7.3        | <0.5                    | <0.5                   | 3.6                    | 55                     | 2.6                        | <0.5                         | 77                | 83                        | 36              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 715                    | 05/01/1997 | <0.5                    | <0.5          | 1          | <0.5                    | <1.0                   | <0.5                   | 2.4                    | <0.5                       | <0.5                         | 8                 | 3.7                       | 1.8             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 715                    | 10/23/1997 | <0.5                    | <0.5          | 1.2        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.6                        | <0.5                         | 2.1               | <0.5                      | 2.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 716                    | 05/23/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | 64                     | <5.0                       | <5.0                         | 460               | 140                       | 24              | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 716                    | 11/15/1998 | <5                      | <5            | <5         | <5                      | <5                     | <5                     | 35                     | <5                         | <5                           | 310               | 62                        | 18              | <5             | NA      | NA      | NA       | NA   | NA             |
| 716                    | 05/07/1996 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 29                     | <5.0                       | <5.0                         | 380               | 52                        | 260             | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 716                    | 11/12/1996 | <0.5                    | <0.5          | 1.2        | <0.5                    | 1.6                    | 1.6                    | 23                     | 0.9                        | <0.5                         | 200               | 30                        | 13              | <0.5           | 0.025   | NA      | <0.01    | NA   | 42             |
| 716                    | 11/20/1996 | <5                      | <5            | <5         | <5                      | <5                     | <5                     | 7.9                    | <5                         | <5                           | 370               | 36                        | 16              | <5             | NA      | NA      | NA       | NA   | NA             |
| 716                    | 05/06/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 4.4                    | <2.5                       | <2.5                         | 180               | <2.5                      | 8.6             | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 717                    | 05/23/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | 56                     | <5.0                       | <5.0                         | 460               | 220                       | 23              | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 717                    | 11/15/1995 | <5                      | <5            | <5         | <5                      | <5                     | <5                     | 42                     | <5                         | <5                           | 210               | 170                       | 13              | <5             | NA      | NA      | NA       | NA   | NA             |
| 718                    | 05/11/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 55                     | <10                        | <10                          | 220               | 160                       | <10             | <10            | 0.062   | NA      | <0.01    | NA   | 38             |
| 718                    | 11/10/1995 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 43                     | <10                        | <10                          | 330               | 25                        | 83              | <10            | NA      | NA      | NA       | NA   | NA             |
| 718                    | 05/09/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 31                     | <10                        | <10                          | 380               | 71                        | 84              | <10            | NA      | NA      | NA       | NA   | NA             |
| 718                    | 11/12/1996 | <0.5                    | <0.5          | 1.2        | <0.5                    | 1.6                    | 1.6                    | 23                     | 0.9                        | 0.5                          | 200               | 30                        | 13              | <0.5           | <0.025  | NA      | <0.01    | NA   | 42             |
| 718                    | 05/02/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 7.6                    | <2.5                       | <2.5                         | 200               | 7                         | 8               | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 718                    | 11/05/1997 | <2.5                    | NA            | <2.5       | <2.5                    | <2.5                   | NA                     | <2.5                   | NA                         | <2.5                         | 210               | <2.5                      | 4               | NA             | 0.015   | NA      | 0.015    | NA   | 34             |
| 718                    | 10/27/1998 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | <5                     | <5                         | <5                           | 210               | <5                        | 6.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05 | 10             |
| 718                    | 10/21/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | <5.0                   | <5.0                       | <5.0                         | 320               | <5.0                      | 11              | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 718                    | 11/01/2000 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | <25                    | <25                        | <25                          | 580               | <25                       | 26              | <25            | NA      | NA      | NA       | NA   | NA             |
| 719                    | 05/23/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 39                     | <10                        | <10                          | 820               | 67                        | 61              | <10            | NA      | NA      | NA       | NA   | NA             |
| 719                    | 11/15/1995 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 32                     | <10                        | <10                          | 430               | 24                        | 24              | <10            | NA      | NA      | NA       | NA   | NA             |
| 719                    | 05/07/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 37                     | <10                        | <10                          | 430               | 64                        | 250             | <10            | NA      | NA      | NA       | NA   | NA             |
| 720                    | 05/18/1995 | <1.0                    | <1.0          | 4.5        | NA                      | <1.0                   | 4.2                    | 200                    | 5.2                        | <1.0                         | 80                | 36                        | 18              | <1.0           | NA      | NA      | NA       | NA   | NA             |
| 720                    | 11/14/1995 | <1                      | <1            | 20         | <1                      | <1                     | <1                     | 78                     | 1.8                        | <1                           | 39                | 14                        | <1              | <1             | NA      | NA      | NA       | NA   | NA             |
| 720                    | 05/06/1996 | <1.0                    | <1.0          | 23         | <1.0                    | <1.0                   | 2.7                    | 78                     | 5.3                        | <1.0                         | 87                | 15                        | 27              | <1.0           | NA      | NA      | NA       | NA   | NA             |
| 720                    | 11/01/1996 | <0.5                    | <0.5          | 10         | <0.5                    | <0.5                   | <0.5                   | 36                     | <0.5                       | <0.5                         | 36                | 3.4                       | 13              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 720                    | 04/29/1997 | <0.5                    | <0.5          | 6.6        | <0.5                    | <0.5                   | <0.5                   | 31                     | 1.9                        | <0.5                         | 30                | 1.9                       | 9.2             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 720                    | 10/30/1997 | <0.5                    | <0.5          | 6          | <0.5                    | <0.5                   | <0.5                   | 9.6                    | 0.8                        | <0.5                         | 15                | <0.5                      | 8.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 723                    | 05/23/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | 11                         | <2.5                         | <2.5              | <2.5                      | 270             | <2.5           | 0.014   | NA      | <0.01    | NA   | 49             |
| 723                    | 11/14/1995 | <0.5                    | <0.5          | 1.2        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 5.7                        | <0.5                         | <0.5              | <0.5                      | 240             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 723                    | 11/01/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | 170             | <2.5           | 0.022   | NA      | <0.01    | NA   | 49             |
| 723                    | 05/06/1996 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | <5.0                   | <5.0                       | <5.0                         | <5.0              | <5.0                      | 230             | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 723                    | 05/01/1997 | <1.0                    | <1.0          | 1.7        | <1.0                    | <1.0                   | <1.0                   | <1.0                   | 4.8                        | <1.0                         | <1.0              | <1.0                      | 140             | <1.0           | NA      | NA      | NA       | NA   | NA             |
| 723                    | 10/30/1997 | <5                      | <5            | <5         | <5                      | <5                     | <5                     | <5                     | 6                          | <5                           | <5                | <5                        | 290             | <5             | 0.013   | NA      | <0.01    | NA   | 40             |
| 723                    | 11/03/1998 | NA                      | NA            | NA         | NA                      | <1.2                   | NA                     | <1.2                   | 2.4                        | <1.2                         | <1.2              | <1.2                      | 73              | <1.2           | NA      | NA      | NA       | NA   | NA             |
| 723                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <1.0                   | NA                     | <1.0                   | 1.5                        | <1.0                         | <1.0              | <1.0                      | 59              | <1.0           | NA      | NA      | NA       | NA   | NA             |
| 723                    | 11/16/2000 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | <5                     | <5                         | <5                           | <5                | <5                        | 110             | <5             | NA      | NA      | NA       | NA   | NA             |
| 724                    | 05/11/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | 91                     | 30                         | <5.0                         | 590               | <5.0                      | 450             | <5.0           | 0.028   | NA      | 0.058    | NA   | 24             |
| 724                    | 11/15/1995 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 61                     | 7.1                        | <5.0                         | 220               | <5.0                      | 190             | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 724                    | 05/09/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 48                     | <10                        | <10                          | 240               | <10                       | 260             | <10            | NA      | NA      | NA       | NA   | NA             |
| 724                    | 11/11/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 52                     | <10                        | <10                          | 410               | <10                       | 540             | <10            | 0.048   | NA      | 0.05     | NA   | 26             |
| 724                    | 05/07/1997 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 45                     | 18                         | <10                          | 290               | <10                       | 400             | <10            | NA      | NA      | NA       | NA   | NA             |
| 724                    | 11/05/1997 | <10                     | NA            | <10        | NA                      | <10                    | NA                     | 66                     | NA                         | <10                          | 480               | <10                       | 570             | NA             | 0.37    | NA      | 0.043    | NA   | 28             |
| 724                    | 10/27/1998 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | 55                     | 16                         | <12                          | 210               | <12                       | 280             | <12            | NA      | NA      | NA       | NA   | NA             |
| 724                    | 12/08/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | 63                     | 16                         | <5.0                         | 160               | <5.0                      | 280             | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 724                    | 11/01/2000 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | 74                     | 12                         | <5                           | 130               | <5                        | 210             | <5             | NA      | NA      | NA       | NA   | NA             |
| 725                    | 05/18/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 28                     | <0.5                       | <0.5                         | 2                 | 1.8                       | 3.9             | <0.5           | 0.63    | NA      | <0.01    | NA   | 10             |
| 725                    | 11/14/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 31                     | <0.5                       | <0.5                         | 1.9               | <0.5                      | 4.2             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 725                    | 05/02/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 13                     | <0.5                       | <0.5                         | 2.1               | 0.7                       | 2.6             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 725                    | 10/31/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 9.3                    | <0.5                       | <0.5                         | 3.4               | <0.5                      | 2               | <0.5           | 0.98    | NA      | <0.01    | NA   | 9.3            |
| 725                    | 04/21/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 7                      | <0.5                       | <0.5                         | 1.8               | <0.5                      | 4.8             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 725                    | 11/03/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 0.8                    | <0.5                       | <0.5                         | 0.8               | <0.5                      | 2.8             | <0.5           | 1.8     | NA      | <0.01    | NA   | 8.9            |
| 726                    | 05/19/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 590                    | <10                        | <10                          | 180               | <10                       | 39              | <10            | 0.55    | NA      | 0.024    | NA   | 27             |
| 726                    | 11/25/1995 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 190                    | <10                        | <10                          | 150               | <10                       | 42              | <10            | NA      | NA      | NA       | NA   | NA             |
| 726                    | 05/09/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 340                    | <10                        | <10                          | 150               | <10                       | 51              | <10            | NA      | NA      | NA       | NA   | NA             |
| 726                    | 11/11/1996 | <5                      | <5            | <5         | <5                      | <5                     | <5                     | 390                    | <5                         | <5                           | 160               | <5                        | 48              | <5             | 0.045   | NA      | 0.04     | NA   | 28             |
| 726                    | 05/06/1997 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 200                    | <5.0                       | <5.0                         | 100               | <5.0                      | 31              | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 726                    | 11/04/1997 | <5                      | <5            | <5         | <5                      | <5                     | <5                     | 280                    | <5                         | <5                           | 320               | <5                        | 86              | <5             | 0.69    | NA      | 0.041    | NA   | 22             |
| 726                    | 12/16/1999 | NA                      | NA            | NA         | NA                      | <1.0                   | NA                     | 77                     | <1.0                       | <1.0                         | 42                | <1.0                      | 17              | <1.0           | NA      | NA      | NA       | NA   | NA             |
| 726                    | 10/18/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 29                     | 0.75                       | <0.5                         | 19                | <0.5                      | 11              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 727                    | 05/23/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.17    | NA      | <0.01    | NA   | 5.8            |
| 727                    | 02/13/1996 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | 260                       | 8200            | <250           | NA      | NA      | NA       | NA   | NA             |
| 727                    | 04/16/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | 5                         | 440             | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 727                    | 05/10/1996 | <0.5                    | <0.5          | 1          | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | 1.4                       | 47              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 727                    | 07/16/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 19              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 727                    | 07/31/1996 | <0.5                    | <0.5          | 0.8        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 11              | <0.5           | 0.14    | NA      | <0.01    | NA   | 13             |
| 727                    | 04/18/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 14              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 727                    | 08/07/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 11              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 727                    | 10/24/1997 | <0.5                    | <0.5          | 0.7        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.6                        | <0.5                         | 0.5               | <0.5                      | 11              | <0.5           | 0.18    | NA      | <0.01    | NA   | 15             |
| 728                    | 05/23/1995 | <0.5                    | <0.5          | 0.9        | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.3                        | <0.5                         | <0.5              | <0.5                      | 36              | <0.5           | 0.53    | NA      | <0.01    | NA   | 5.1            |
| 728                    | 11/15/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.6                        | <0.5                         | <0.5              | <0.5                      | 23              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 728                    | 05/24/1996 | <0.5                    | <0.5          | 0.5        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 20              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 728                    | 10/31/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.1                        | <0.5                         | <0.5              | <0.5                      | 23              | <0.5           | 0.54    | <0.5    | <0.01    | NA   | 6.6            |
| 728                    | 04/23/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1                          | <0.5                         | <0.5              | <0.5                      | 32              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 728                    | 10/29/1997 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 23              | <0.5           | 0.54    | NA      | <0.01    | NA   | 7.2            |
| 728                    | 11/03/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 1                          | <0.5                         | <0.5              | <0.5                      | 20              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 728                    | 12/14/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.72                       | <0.5                         | <0.5              | <0.5                      | 9.8             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 728                    | 10/18/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 8.6             | <0.5           | NA      | NA      | NA       | NA   | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05 | 10             |
| 730                    | 05/17/1995 | <0.5                    | <0.5          | 0.7        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 5.5             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 11/14/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.1                        | <0.5                         | <0.5              | <0.5                      | 14              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 02/15/1996 | <0.5                    | <0.5          | 0.7        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.6                        | <0.5                         | <0.5              | <0.5                      | 15              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 05/31/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.1                        | <0.5                         | <0.5              | <0.5                      | 8.3             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 07/16/1996 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 10              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 10/28/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 4.8             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 01/23/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.7                        | <0.5                         | <0.5              | <0.5                      | 7.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 04/18/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.7                        | <0.5                         | <0.5              | <0.5                      | 6.4             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 08/07/1997 | <0.5                    | <0.5          | 0.8        | <0.5                    | <0.5                   | <0.5                   | 0.5                    | <0.5                       | <0.5                         | 1                 | <0.5                      | 2.4             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 10/24/1997 | <0.5                    | <0.5          | 6.5        | <0.5                    | <0.5                   | <0.5                   | 0.6                    | 1.6                        | <0.5                         | 1.5               | <0.5                      | 2.4             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 04/29/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 0.94                   | 0.77                       | <0.5                         | <0.5              | <0.5                      | 5.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 11/11/1998 | NA                      | NA            | NA         | NA                      | <1.2                   | NA                     | <1.2                   | 5.7                        | <1.2                         | 4.3               | <1.2                      | 59              | <1.2           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 04/27/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 0.58                   | 3.2                        | <0.5                         | 2.7               | <0.5                      | 31              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 12/14/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 1.1                        | <0.5                         | <0.5              | <0.5                      | 8.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 04/14/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 1.2                        | <0.5                         | <0.5              | <0.5                      | 9.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 730                    | 10/20/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | 0.79              | <0.5                      | 17              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 05/17/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.8                        | <0.5                         | <0.5              | <0.5                      | 13              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 02/14/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2                          | <0.5                         | <0.5              | <0.5                      | 17              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 04/29/1996 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.5                        | <0.5                         | <0.5              | <0.5                      | 19              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 07/16/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.7                        | <0.5                         | <0.5              | <0.5                      | 10              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 10/21/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.4                        | <0.5                         | <0.5              | <0.5                      | 20              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 01/23/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.5                        | <0.5                         | <0.5              | <0.5                      | 21              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 08/07/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.3                        | <0.5                         | <0.5              | <0.5                      | 12              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 10/27/1997 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.1                        | <0.5                         | <0.5              | <0.5                      | 18              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 04/28/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 2.3                        | <0.5                         | <0.5              | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 11/03/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 1.4                        | <0.5                         | <0.5              | <0.5                      | 10              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 04/27/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 1.8                        | <0.5                         | <0.5              | <0.5                      | 15              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 12/14/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 1.9                        | <0.5                         | <0.5              | <0.5                      | 15              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 731                    | 04/14/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.05                  | 1.2                        | <0.05                        | <0.05             | <0.05                     | 9.7             | <0.05          | NA      | NA      | NA       | NA   | NA             |
| 731                    | 10/18/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.97                       | <0.5                         | <0.5              | <0.5                      | 8.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 732                    | 05/17/1995 | <0.5                    | <0.5          | 0.9        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 3.6             | <0.5           | 0.074   | NA      | <0.01    | NA   | 21             |
| 732                    | 04/25/1996 | <0.5                    | <0.5          | 1.7        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 4               | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 732                    | 07/16/1996 | <0.5                    | <0.5          | 1.2        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 732                    | 10/24/1996 | <0.5                    | <0.5          | 1.3        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.8             | <0.5           | 0.17    | NA      | <0.01    | NA   | 7.1            |
| 732                    | 01/23/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.4             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 732                    | 08/20/1997 | <0.5                    | <0.5          | 0.61       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 5.4             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 732                    | 10/23/1997 | <0.5                    | <0.5          | 1.4        | <0.5                    | <0.5                   | <0.5                   | 0.6                    | 1.6                        | <0.5                         | 0.7               | <0.5                      | 16              | <0.5           | 0.1     | NA      | <0.01    | NA   | 9.7            |
| 732                    | 04/28/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 1                      | 0.65                       | 0.8                          | <0.5              | <0.5                      | 5.5             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 732                    | 11/03/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 0.96                   | 2.8                        | <0.5                         | 2.3               | <0.5                      | 27              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 732                    | 04/27/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 1                          | <0.5                         | 0.79              | <0.5                      | 11              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 732                    | 12/14/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.66                       | <0.5                         | <0.5              | <0.5                      | 8.6             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 732                    | 04/14/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.72                       | <0.5                         | <0.5              | <0.5                      | 6.8             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 732                    | 10/25/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | <0.5                   | NA                     | <0.5                       | <0.5                         | <0.5              | <0.5                      | 6.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 733                    | 05/17/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.055   | NA      | <0.01    | NA   | 10             |
| 733                    | 11/13/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.4             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 733                    | 04/24/1996 | <0.5                    | <0.5          | 0.8        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.3             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 733                    | 10/24/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.9             | <0.5           | 0.09    | NA      | <0.01    | NA   | 11             |
| 733                    | 01/23/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 733                    | 04/15/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 733                    | 10/20/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.8             | <0.5           | 0.082   | NA      | <0.01    | NA   | 11             |
| 733                    | 04/28/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.71            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 733                    | 11/03/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.63            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 733                    | 04/28/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.63            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 733                    | 12/14/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.55            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 733                    | 04/17/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.65            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 733                    | 10/20/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.56            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 101-55                 | 11/21/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 119-137                | 04/12/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.015   | NA      | <0.01    | NA   | 5.9            |
| 119-137                | 11/18/1996 | <5                      | <5            | <5         | <5                      | <5                     | <5                     | <5                     | <5                         | <5                           | <5                | <5                        | <5              | <5             | NA      | NA      | NA       | NA   | NA             |
| 119-137                | 11/11/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 119-137                | 11/25/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.005   | NA      | <0.01    | NA   | 0.16           |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 119-137                | 10/28/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 1.7            | NA      | NA      | NA       | NA     | NA             |
| 119-284                | 04/12/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.047   | NA      | <0.01    | NA     | <0.1           |
| 119-284                | 11/18/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.008   | NA      | <0.01    | NA     | 0.018          |
| 119-284                | 11/11/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.053   | NA      | <0.01    | NA     | 0.22           |
| 119-284                | 10/28/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 122-B                  | 05/02/1995 | <0.5                    | <0.5          | 1.1        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 0.9               | <0.5                      | <0.5            | <0.5           | 0.033   | NA      | <0.01    | NA     | 8.6            |
| 122-B                  | 10/18/1996 | <0.5                    | <0.5          | 1.2        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 1.3               | <0.5                      | <0.5            | <0.5           | 0.022   | NA      | <0.01    | NA     | 11             |
| 122-B                  | 10/21/1997 | <0.5                    | <0.5          | 1.5        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.022   | NA      | <0.01    | NA     | 12             |
| 122-B                  | 11/04/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 122-B                  | 12/21/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 122-B                  | 10/26/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 123-135                | 04/13/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 123-135                | 11/18/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 123-35                 | 11/12/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 123-56                 | 04/13/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.021   | NA      | <0.01    | NA     | 1.4            |
| 125-125                | 10/17/1994 | <12.5                   | <12.5         | <12.5      | <12.5                   | <12.5                  | <12.5                  | <12.5                  | NA                         | <12.5                        | <12.5             | <12.5                     | 360             | <12.5          | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 02/06/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 33              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 04/13/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 42              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 11/21/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 42              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 05/28/1996 | <0.5                    | 0.9           | <0.5       | 0.8                     | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 1                 | <0.5                      | 18              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 10/02/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 190             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 08/29/1997 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | <5.0                   | <5.0                       | <5.0                         | <5.0              | <5.0                      | 990             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 12/19/1997 | <25                     | NA            | <25        | NA                      | <25                    | NA                     | <25                    | NA                         | <25                          | <25               | <25                       | 630             | NA             | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 04/23/1998 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | <12                    | <12                        | <12                          | <12               | <12                       | 450             | <12            | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 10/15/1998 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | <12                    | <12                        | <12                          | <12               | <12                       | 540             | <12            | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 04/27/1999 | NA                      | NA            | NA         | NA                      | <10                    | NA                     | <10                    | <10                        | <10                          | <10               | <10                       | 450             | <10            | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 11/02/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | <5.0                   | <5.0                       | <5.0                         | <5.0              | <5.0                      | 350             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 04/04/2000 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | <5                     | <5                         | <5                           | 200               | <5                        | <5              | <5             | NA      | NA      | NA       | NA     | NA             |
| 125-125                | 11/15/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.57                       | 1.1                          | <0.5              | <0.5                      | 140             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 10/17/1994 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | NA                         | <2.5                         | <2.5              | <2.5                      | 67              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 02/06/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.5                        | <0.5                         | <0.5              | <0.5                      | 73              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 04/13/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 0.6                    | 1.2                        | <0.5                         | <0.5              | <0.5                      | 73              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 11/21/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.4                        | <0.5                         | <0.5              | <0.5                      | 93              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 05/28/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.6                        | 1.2                          | <0.5              | <0.5                      | 120             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 10/02/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | 5.3                        | <2.5                         | <2.5              | <2.5                      | 120             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 08/29/1997 | <5.0                    | <0.5          | <5.0       | <0.5                    | <5.0                   | <0.5                   | <5.0                   | 6.5                        | 4                            | <5.0              | <5.0                      | 53              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 12/19/1997 | <2.5                    | NA            | <2.5       | NA                      | <2.5                   | NA                     | <2.5                   | NA                         | 5                            | <2.5              | <2.5                      | 90              | NA             | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 04/23/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 10                         | 5.6                          | <0.5              | <0.5                      | 85              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 04/27/1999 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 17                         | 8.3                          | <2.5              | <2.5                      | 92              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 11/02/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 31                         | <0.5                         | <0.5              | <0.5                      | 3.4             | 24             | NA      | NA      | NA       | NA     | NA             |
| 125-155                | 11/15/2000 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 35                         | 12                           | <2.5              | <2.5                      | 100             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 10/17/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 02/06/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 2.4                        | <0.5                         | <0.5              | <0.5                      | 18              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 04/13/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 0.7                    | 3                          | <0.5                         | <0.5              | <0.5                      | 19              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 11/21/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 4.9                        | <0.5                         | <0.5              | <0.5                      | 30              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 05/28/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 46                         | 2.2                          | 0.9               | <0.5                      | 1.1             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 10/02/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 34                         | 3.7                          | <0.5              | <0.5                      | 2.8             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 08/29/1997 | <1.0                    | <1.0          | <1.0       | <1.0                    | <1.0                   | <1.0                   | <1.0                   | 85                         | 4.4                          | <1.0              | <1.0                      | <1.0            | 1              | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 12/19/1997 | <1.0                    | NA            | <1.0       | NA                      | <1.0                   | NA                     | <1.0                   | NA                         | 6.2                          | <1.0              | <1.0                      | 2.4             | NA             | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 04/23/1998 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 120                        | 8.9                          | <2.5              | <2.5                      | <2.5            | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 10/15/1998 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 85                         | 5.8                          | <2.5              | <2.5                      | <2.5            | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 04/27/1999 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 140                        | 12                           | <2.5              | <2.5                      | <2.5            | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 11/02/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | <5.0                   | 140                        | 13                           | <5.0              | <5.0                      | <5.0            | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 125-185                | 04/08/2000 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 25                         | 8.1                          | <2.5              | <2.5                      | 94              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 10/17/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | <0.5            | 9.6            | <0.005  | <0.0005 | <0.01    | <0.002 | <0.10          |
| 125-270                | 02/06/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.2                        | <0.5                         | <0.5              | <0.5                      | <0.5            | 14             | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 04/13/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 0.9                        | <0.5                         | <0.5              | <0.5                      | <0.5            | 12             | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 11/21/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.5                        | <0.5                         | <0.5              | <0.5                      | <0.5            | 10             | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 06/11/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 8              | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 10/02/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1                          | <0.5                         | <0.5              | <0.5                      | <0.5            | 12             | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 08/29/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | <2.5            | 3.6            | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 125-270                | 12/19/1997 | <0.5                    | NA            | <0.5       | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | 1.1                          | <0.5              | <0.5                      | 1               | NA             | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 04/23/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.83                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 8.9            | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 10/15/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 6.5            | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 04/27/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.8             | 8.6            | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 11/02/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 9.4            | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 04/08/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 8.3            | NA      | NA      | NA       | NA     | NA             |
| 125-270                | 11/15/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 8.4            | NA      | NA      | NA       | NA     | NA             |
| 125-44                 | 10/14/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-44                 | 02/06/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-76                 | 10/14/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | <0.005  | <0.0005 | <0.01    | <0.002 | <0.10          |
| 125-76                 | 02/06/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-76                 | 04/13/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.037   | NA      | <0.01    | NA     | <0.1           |
| 125-76                 | 11/21/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-76                 | 05/28/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-76                 | 10/02/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | <0.005  | NA      | <0.01    | NA     | <0.10          |
| 125-76                 | 09/03/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.8             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-76                 | 12/19/1997 | <0.5                    | NA            | <0.5       | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | 21              | NA             | <0.005  | NA      | <0.01    | NA     | <0.1           |
| 125-76                 | 04/23/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-76                 | 10/15/1998 | NA                      | NA            | NA         | NA                      | 0.8                    | NA                     | <0.5                   | 4.6                        | <0.5                         | <0.5              | <0.5                      | <0.5            | 9.9            | NA      | NA      | NA       | NA     | NA             |
| 125-76                 | 04/27/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.8             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 125-76                 | 11/02/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.95            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 501-202                | 04/17/1995 | <1.0                    | <1.0          | <1.0       | NA                      | <1.0                   | <1.0                   | <1.0                   | 4.9                        | <1.0                         | 1.2               | <1.0                      | 46              | <1.0           | 0.01    | NA      | <0.01    | NA     | 2.5            |
| 501-202                | 05/20/1996 | <0.5                    | <0.5          | 1.4        | <0.5                    | <0.5                   | <0.5                   | 1.4                    | 3.5                        | <0.5                         | 1.1               | <0.5                      | 46              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 501-202                | 06/11/1997 | <0.5                    | <0.5          | 0.8        | 0.6                     | <0.5                   | <0.5                   | <0.5                   | 2.4                        | <0.5                         | 0.9               | <0.5                      | 32              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 501-267                | 04/17/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.2             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 501-267                | 05/20/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 501-267                | 06/11/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.2             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 501-387                | 04/17/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 501-387                | 05/20/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 501-387                | 06/11/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-119                | 04/18/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 19                     | 50                         | <10                          | <10               | <10                       | 160             | <10            | 0.006   | NA      | <0.01    | NA     | <0.1           |
| 502-119                | 12/14/1995 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | 68                         | <2.5                         | 5.4               | <2.5                      | 130             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 502-119                | 06/19/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 12                     | 28                         | <2.5                         | 2.7               | <2.5                      | 98              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 502-119                | 11/22/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | NA                     | NA                         | NA                           | NA                | NA                        | NA              | NA             | 0.005   | NA      | 0.01     | NA     | <0.01          |
| 502-119                | 12/11/1996 | <0.5                    | 1.6           | <0.5       | 1.5                     | <0.5                   | <0.5                   | 15                     | 66                         | 0.9                          | 0.7               | 1.2                       | 29              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-119                | 06/11/1997 | <0.5                    | 1.1           | 2          | 0.7                     | <0.5                   | <0.5                   | 7.5                    | 100                        | <0.5                         | 1                 | <0.5                      | 38              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-119                | 12/16/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | 42                         | <2.5                         | 6.6               | <2.5                      | <2.5            | <2.5           | 0.005   | NA      | <0.01    | NA     | <0.1           |
| 502-119                | 10/16/1998 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 3.4                    | 48                         | <2.5                         | <2.5              | <2.5                      | 5               | 4.9            | NA      | NA      | NA       | NA     | NA             |
| 502-119                | 11/04/1999 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 5.2                    | 87                         | <2.5                         | <2.5              | <2.5                      | 3.3             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 502-119                | 11/09/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 4.6                    | 100                        | <0.5                         | <0.5              | <0.5                      | 5.7             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-161                | 04/18/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 8.2                    | 48                         | <0.5                         | <0.5              | <0.5                      | 11              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-161                | 12/04/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 6.5                    | 38                         | <0.5                         | 0.8               | <0.5                      | 9.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-161                | 05/29/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 5.8                    | 30                         | <0.5                         | <0.5              | <0.5                      | 12              | 0.9            | NA      | NA      | NA       | NA     | NA             |
| 502-161                | 12/11/1996 | <0.5                    | 1.3           | 7.1        | 41                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 19              | 0.9            | NA      | NA      | NA       | NA     | NA             |
| 502-161                | 06/11/1997 | <0.5                    | 1.1           | <0.5       | <0.5                    | <0.5                   | <0.5                   | 4.1                    | 23                         | <0.5                         | 0.8               | <0.5                      | 10              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-161                | 12/16/1997 | <0.5                    | 1.5           | 0.9        | <0.5                    | <0.5                   | <0.5                   | 2.4                    | 19                         | <0.5                         | 0.7               | <0.5                      | 8.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-161                | 10/16/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 2.8                    | 14                         | <0.5                         | 0.61              | <0.5                      | 6.8             | 0.75           | NA      | NA      | NA       | NA     | NA             |
| 502-161                | 11/04/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 2.1                    | 11                         | <0.5                         | 0.68              | <0.5                      | 5.5             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-161                | 11/08/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 1.4                    | 17                         | <0.5                         | <0.5              | <0.5                      | 0.63            | 0.56           | NA      | NA      | NA       | NA     | NA             |
| 502-240                | 04/18/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 2.8                        | <0.5                         | <0.5              | <0.5                      | 2.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-240                | 12/04/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.6                        | <0.5                         | <0.5              | <0.5                      | 2.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-240                | 05/29/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2                          | <0.5                         | <0.5              | <0.5                      | 2.3             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-240                | 12/11/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.3                        | <0.5                         | <0.5              | <0.5                      | 4               | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-240                | 06/11/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.4                        | <0.5                         | <0.5              | <0.5                      | 2.3             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-240                | 12/16/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.9                        | <0.5                         | <0.5              | <0.5                      | 1.5             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-240                | 10/16/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.79                       | <0.5                         | <0.5              | <0.5                      | 1.5             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-240                | 11/04/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.72                       | <0.5                         | <0.5              | <0.5                      | 0.99            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-240                | 11/08/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.86                       | <0.5                         | <0.5              | <0.5                      | 0.72            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-335                | 04/18/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-335                | 12/06/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.7             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 502-335                | 05/29/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05 | 10             |
| 502-335                | 06/11/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 502-335                | 12/16/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 502-335                | 11/04/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 502-335                | 11/09/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 0.74           | NA      | NA      | NA       | NA   | NA             |
| 502-79                 | 04/18/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 31                     | 12                         | <10                          | <10               | <10                       | 200             | <10            | NA      | NA      | NA       | NA   | NA             |
| 502-79                 | 12/04/1995 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 14                     | 6.2                        | <2.5                         | 3.8               | <2.5                      | 130             | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 502-79                 | 05/29/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 11                     | 6.8                        | <2.5                         | <2.5              | <2.5                      | 90              | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 502-79                 | 12/11/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 6.8                    | 8.2                        | 0.6                          | 1.7               | <0.5                      | 82              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 502-79                 | 06/11/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 3.7                    | 4.5                        | 0.6                          | 1.2               | <0.5                      | 45              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 502-79                 | 12/10/1997 | <1                      | <1            | <1         | <1                      | <1                     | <1                     | 1.4                    | 3.6                        | <1                           | 1.4               | <1                        | 26              | <1             | NA      | NA      | NA       | NA   | NA             |
| 502-79                 | 10/16/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 2.2                    | 4.7                        | <0.5                         | 0.84              | <0.5                      | 24              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 502-79                 | 11/04/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 1.9                    | 4.7                        | <0.5                         | 0.9               | <0.5                      | 21              | 0.77           | NA      | NA      | NA       | NA   | NA             |
| 502-79                 | 11/09/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 11                     | 36                         | <0.5                         | 2                 | <0.5                      | 12              | 0.67           | NA      | NA      | NA       | NA   | NA             |
| 506-100                | 04/20/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 2.7                    | 23                         | <0.5                         | 14                | <0.5                      | 29              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 506-100                | 05/16/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 2.4                    | 16                         | <0.5                         | 11                | <0.5                      | 31              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 506-100                | 06/16/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 1.4                    | 11                         | <0.5                         | 12                | <0.5                      | 19              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 506-185                | 04/20/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | 30                         | <2.5                         | 2.6               | <2.5                      | 170             | <2.5           | <0.005  | NA      | <0.01    | NA   | 5.3            |
| 506-185                | 05/16/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | 19                         | <2.5                         | <2.5              | <2.5                      | 120             | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 506-185                | 06/16/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | 24                         | <2.5                         | 4.5               | <2.5                      | 200             | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 506-240                | 04/18/1995 | <0.5                    | <0.5          | 0.5        | NA                      | <0.5                   | <0.5                   | <0.5                   | 3.8                        | <0.5                         | <0.5              | <0.5                      | 5.6             | 0.9            | NA      | NA      | NA       | NA   | NA             |
| 506-240                | 05/16/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 1.1                    | 2.2                        | <0.5                         | <0.5              | <0.5                      | 5.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 506-240                | 06/16/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.9                        | <0.5                         | <0.5              | <0.5                      | 5.3             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 506-305                | 04/18/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 4.4                        | <0.5                         | <0.5              | <0.5                      | 6.2             | 0.5            | NA      | NA      | NA       | NA   | NA             |
| 506-305                | 05/16/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 1.4                    | 3                          | <0.5                         | <0.5              | <0.5                      | 7.1             | 1.2            | NA      | NA      | NA       | NA   | NA             |
| 506-305                | 06/16/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.3                        | <0.5                         | <0.5              | <0.5                      | 5.9             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 506-375                | 04/18/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 0.5                    | 5                          | <0.5                         | <0.5              | <0.5                      | 6.6             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 506-375                | 05/16/1996 | <0.5                    | <0.5          | 1.5        | <0.5                    | <0.5                   | <0.5                   | 1.6                    | 3.7                        | <0.5                         | <0.5              | <0.5                      | 8.2             | 1.1            | NA      | NA      | NA       | NA   | NA             |
| 506-375                | 06/16/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.9                        | <0.5                         | <0.5              | <0.5                      | 7.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 507-188                | 04/20/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | 120                        | <2.5                         | <2.5              | <2.5                      | 58              | <2.5           | 0.11    | NA      | <0.01    | NA   | <0.1           |
| 507-240                | 04/20/1995 | <0.5                    | <0.5          | 1.6        | NA                      | <0.5                   | <0.5                   | 1.4                    | 32                         | <0.5                         | 1.3               | <0.5                      | 32              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 507-280                | 04/20/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | <2.5            | 34             | NA      | NA      | NA       | NA   | NA             |
| 507-315                | 04/20/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.3                        | <0.5                         | <0.5              | <0.5                      | <0.5            | 36             | NA      | NA      | NA       | NA   | NA             |
| 507-84                 | 04/20/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | <5.0                   | 170                        | <5.0                         | <5.0              | <5.0                      | 240             | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 507-84                 | 05/30/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | <10                    | 110                        | <10                          | 19                | <10                       | 370             | <10            | NA      | NA      | NA       | NA   | NA             |
| 507-84                 | 06/17/1997 | <2.5                    | <2.5          | 6.1        | <2.5                    | <2.5                   | <2.5                   | 4                      | 150                        | <2.5                         | 20                | <2.5                      | 360             | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 510-110                | 04/21/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | <10                    | 120                        | <10                          | <10               | <10                       | 330             | <10            | <0.005  | NA      | <0.01    | NA   | 2              |
| 510-175                | 04/21/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | 16                         | <2.5                         | <2.5              | <2.5                      | 150             | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 511-110                | 04/21/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | 108                        | <2.5                         | 22                | <2.5                      | 410             | <2.5           | 0.008   | NA      | <0.01    | NA   | 5.6            |
| 511-290                | 04/21/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 511-65                 | 04/21/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | <5.0                   | 170                        | <5.0                         | 30                | <5.0                      | 460             | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 512-345                | 04/25/1995 | <0.5                    | <0.5          | 2.2        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 512-90                 | 04/25/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | <0.005  | NA      | <0.01    | NA   | <0.1           |
| 513-145                | 04/26/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | <5.0                   | 13                         | <5.0                         | <5.0              | <5.0                      | 190             | <5.0           | <0.005  | NA      | <0.01    | NA   | 2.6            |
| 513-145                | 05/28/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 6.9                        | <0.5                         | 3                 | <0.5                      | 160             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 513-145                | 06/12/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | 8.7                        | <2.5                         | 3.6               | <2.5                      | 200             | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 513-280                | 04/26/1995 | <1.0                    | <1.0          | 2.5        | NA                      | <1.0                   | <1.0                   | <1.0                   | <1.0                       | <1.0                         | <1.0              | <1.0                      | 20              | <1.0           | NA      | NA      | NA       | NA   | NA             |
| 513-280                | 05/28/1996 | <0.5                    | <0.5          | 2.5        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.7                        | <0.5                         | <0.5              | <0.5                      | 20              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 513-280                | 06/12/1997 | <0.5                    | <0.5          | 1.8        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 4.1                        | <0.5                         | <0.5              | <0.5                      | 21              | 1.9            | NA      | NA      | NA       | NA   | NA             |
| 514-105                | 04/26/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | 31                         | <2.5                         | <2.5              | <2.5                      | 160             | <2.5           | <0.005  | NA      | <0.01    | NA   | <0.2           |
| 514-295                | 04/26/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 515-115                | 04/27/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | 4.8                    | 8.4                        | <2.5                         | 9.7               | <2.5                      | 390             | <2.5           | <0.005  | NA      | <0.01    | NA   | <0.1           |
| 515-210                | 04/27/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.8             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 515-265                | 04/27/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | 0.9                    | 1.5                    | 22                         | <0.5                         | <0.5              | <0.5                      | 2.4             | 1.8            | NA      | NA      | NA       | NA   | NA             |
| 515-320                | 04/27/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | 1                      | <0.5                   | 20                         | <0.5                         | <0.5              | <0.5                      | <0.5            | 23             | NA      | NA      | NA       | NA   | NA             |
| 515-380                | 04/27/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 5.3                        | <0.5                         | 1.2               | <0.5                      | 3.5             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 515-65                 | 04/27/1995 | <5.0                    | <5.0          | 12         | NA                      | <5.0                   | 7.2                    | 16                     | 120                        | <5.0                         | 14                | 9.4                       | 590             | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 516-150                | 04/28/1995 | <10                     | <10           | <10        | NA                      | <10                    | 57                     | 76                     | 160                        | <10                          | <10               | <10                       | 300             | <10            | NA      | NA      | NA       | NA   | NA             |
| 516-210                | 04/28/1995 | <0.5                    | <0.5          | <0.5       | NA                      | 0.7                    | 6.2                    | 7.4                    | 43                         | <0.5                         | <0.5              | <0.5                      | 14              | <0.5           | <0.005  | NA      | <0.01    | NA   | <0.1           |
| 516-295                | 04/28/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 2.4                        | <0.5                         | <0.5              | <0.5                      | 1.7             | 0.6            | NA      | NA      | NA       | NA   | NA             |
| 516-335                | 04/28/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.9                        | <0.5                         | <0.5              | <0.5                      | 1.3             | 0.7            | NA      | NA      | NA       | NA   | NA             |
| 516-390                | 04/28/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.2                        | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 516-65                 | 04/28/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | 90                     | 42                     | 77                         | <2.5                         | <2.5              | 3                         | 73              | 14             | NA      | NA      | NA       | NA     | NA             |
| 517-125                | 04/24/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | 52                     | 31                     | 13                         | <0.5                         | <0.5              | 5.6                       | 23              | 2.1            | NA      | NA      | NA       | NA     | NA             |
| 517-185                | 04/24/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | 98                     | 100                    | 41                         | <2.5                         | <2.5              | 7.3                       | 90              | 10             | <0.005  | NA      | <0.01    | NA     | 2.6            |
| 517-235                | 04/24/1995 | <0.5                    | <0.5          | 11         | NA                      | <0.5                   | 9.8                    | 18                     | 9.5                        | <0.5                         | <0.5              | <0.5                      | 18              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 517-315                | 04/24/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | 5.8                    | 8.5                    | 4.3                        | <0.5                         | <0.5              | <0.5                      | 5.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 517-70                 | 04/24/1995 | <2.5                    | <2.5          | <2.5       | NA                      | 3                      | 140                    | 98                     | 42                         | <2.5                         | <2.5              | 18                        | 59              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 518-81                 | 05/05/1995 | <5.0                    | <0.5          | <5.0       | NA                      | <5.0                   | 66                     | 87                     | 67                         | <5.0                         | <5.0              | 17                        | 460             | <5.0           | 0.005   | NA      | <0.01    | NA     | 7              |
| 601-135                | 11/03/1994 | <2.5                    | <2.5          | 7.8        | 7.8                     | <2.5                   | 11                     | 24                     | NA                         | <2.5                         | <2.5              | 11                        | 96              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 02/07/1995 | <2.5                    | <2.5          | 4.2        | NA                      | <2.5                   | 6.5                    | 24                     | 47                         | <2.5                         | <2.5              | 3.8                       | 110             | 9.3            | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 05/01/1995 | <2.5                    | 7.8           | 4          | NA                      | <2.5                   | 9                      | 27                     | 4.6                        | <2.5                         | <2.5              | 5                         | 150             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 08/02/1995 | <0.5                    | <0.5          | 3.9        | NA                      | <0.5                   | 8.3                    | 26                     | 3.8                        | <0.5                         | 2.9               | 9.8                       | 180             | 1.1            | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 11/30/1995 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | 5.2                    | 28                     | 3.4                        | <2.5                         | 4.6               | 3.2                       | 150             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 02/07/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 11                     | <2.5                       | <2.5                         | <2.5              | <2.5                      | 110             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 05/30/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | 7                      | 20                     | 4.4                        | <2.5                         | 4                 | 2.8                       | 190             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 07/24/1996 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 52                     | <25                        | <25                          | <25               | 58                        | 300             | <25            | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 12/04/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | 5.1                    | 19                     | 6.2                        | <2.5                         | <2.5              | 3.9                       | 220             | 2.7            | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 02/03/1997 | <1.0                    | <1.0          | <1.0       | 3.4                     | <1.0                   | 6.6                    | 16                     | 3.6                        | <1.0                         | 3.6               | 2.9                       | 250             | 1.8            | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 06/18/1997 | <0.5                    | <0.5          | 2          | 1                       | <0.5                   | 6                      | 20                     | 4.1                        | <0.5                         | 2.4               | 2.8                       | 210             | 0.9            | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 08/19/1997 | <10                     | <10           | <10        | <10                     | <10                    | 10                     | 29                     | <10                        | <10                          | <10               | <10                       | 700             | <10            | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 12/18/1997 | <10                     | NA            | <10        | NA                      | <10                    | NA                     | 18                     | NA                         | <10                          | <10               | <10                       | 370             | NA             | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 04/28/1998 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | 24                     | <5.0                       | <5.0                         | <5.0              | <5.0                      | 390             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 10/14/1998 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | 12                     | NA                         | NA                           | NA                | NA                        | 300             | <5             | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 04/27/1999 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | 23                     | <12                        | <12                          | <12               | <12                       | 610             | <12            | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 10/29/1999 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | 20                     | <12                        | <12                          | <12               | <12                       | 540             | <12            | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 04/08/2000 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | <25                    | <25                        | <25                          | <25               | <25                       | 860             | <25            | NA      | NA      | NA       | NA     | NA             |
| 601-135                | 11/02/2000 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | <25                    | <25                        | <25                          | <25               | <25                       | 840             | <25            | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 11/04/1994 | <500                    | <500          | <500       | <500                    | <500                   | <500                   | <500                   | NA                         | <500                         | <500              | <500                      | 40000           | <500           | 0.016   | <0.0005 | <0.01    | <0.002 | 2.4            |
| 601-200                | 02/07/1995 | <500                    | <500          | <500       | NA                      | <500                   | <500                   | <500                   | <500                       | <500                         | <500              | <500                      | 51000           | <500           | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 05/01/1995 | <500                    | <500          | <500       | NA                      | <500                   | <500                   | <500                   | <500                       | <500                         | <500              | <500                      | 51000           | <500           | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 08/02/1995 | <500                    | <500          | <500       | NA                      | <500                   | <500                   | <500                   | <500                       | <500                         | <500              | <500                      | 36000           | <500           | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 11/30/1995 | <1250                   | <1250         | <1250      | <1250                   | <1250                  | <1250                  | <1250                  | <1250                      | <1250                        | <1250             | <1250                     | 48000           | <1250          | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 02/07/1996 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | <250                      | 81000           | <250           | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 05/30/1996 | <1000                   | <1000         | <1000      | <1000                   | <1000                  | <1000                  | <1000                  | <1000                      | <1000                        | <1000             | <1000                     | 92000           | <1000          | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 07/24/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 72000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 12/04/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 80000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 02/03/1997 | <5000                   | <5000         | <5000      | <5000                   | <5000                  | <5000                  | <5000                  | <5000                      | <5000                        | <5000             | <5000                     | 130000          | <5000          | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 06/18/1997 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 150000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 08/19/1997 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 170000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 12/18/1997 | <2500                   | NA            | <2500      | NA                      | <2500                  | NA                     | <2500                  | NA                         | <2500                        | <2500             | <2500                     | 120000          | NA             | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 04/28/1998 | NA                      | NA            | NA         | NA                      | <2500                  | NA                     | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 13000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 10/14/1998 | NA                      | NA            | NA         | NA                      | 260                    | NA                     | 150                    | 130                        | <120                         | 140               | <120                      | 79000           | <120           | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 04/27/1999 | NA                      | NA            | NA         | NA                      | <2500                  | NA                     | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 140000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 10/29/1999 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 56                         | <2.5                         | <2.5              | <2.5                      | <2.5            | 110            | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 04/08/2000 | NA                      | NA            | NA         | NA                      | <2500                  | NA                     | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 140000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| 601-200                | 11/02/2000 | NA                      | NA            | NA         | NA                      | <250                   | NA                     | <250                   | 420                        | <250                         | <250              | <250                      | 120000          | 400            | NA      | NA      | NA       | NA     | NA             |
| 601-40                 | 11/04/1994 | <5.0                    | 5.2           | <5.0       | 36                      | <5.0                   | <5.0                   | <5.0                   | NA                         | <5.0                         | <5.0              | <5.0                      | <5.0            | 20             | 0.36    | <0.0005 | <0.01    | <0.002 | <0.10          |
| 601-40                 | 02/07/1995 | <0.5                    | <2.5          | <0.5       | NA                      | <0.5                   | 6.5                    | <0.5                   | 65                         | <0.5                         | 2                 | <0.5                      | 1.3             | 15             | NA      | NA      | NA       | NA     | NA             |
| 601-40                 | 05/01/1995 | <0.5                    | 23            | <0.5       | NA                      | <0.5                   | 1.6                    | <0.5                   | 6                          | <0.5                         | 1.2               | <0.5                      | 1.1             | 20             | 0.52    | NA      | <0.01    | NA     | <0.1           |
| 601-40                 | 11/30/1995 | <0.5                    | 8             | <0.5       | 30                      | <0.5                   | <0.5                   | <0.5                   | 3                          | <0.5                         | 1.6               | <0.5                      | <0.5            | 8.2            | NA      | NA      | NA       | NA     | NA             |
| 601-40                 | 05/30/1996 | <0.5                    | 3.9           | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 9.6                        | <0.5                         | 1.8               | <0.5                      | 5.6             | 5.3            | NA      | NA      | NA       | NA     | NA             |
| 601-40                 | 12/04/1996 | <0.5                    | 2.2           | <0.5       | 11                      | <0.5                   | 6.9                    | 19                     | 3.5                        | <0.5                         | <0.5              | <0.5                      | 0.9             | 2.5            | 0.29    | NA      | <0.01    | NA     | <0.1           |
| 601-40                 | 06/18/1997 | <0.5                    | 1.5           | <0.5       | 11                      | <0.5                   | <0.5                   | 0.58                   | 3                          | <0.5                         | 0.78              | <0.5                      | 1.9             | 1.4            | NA      | NA      | NA       | NA     | NA             |
| 601-40                 | 12/18/1997 | <0.5                    | NA            | <0.5       | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | 0.6               | <0.5                      | 0.9             | NA             | 0.52    | NA      | <0.01    | NA     | <0.1           |
| 601-40                 | 04/28/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 1.3                        | <0.5                         | <0.5              | <0.5                      | <0.5            | 0.74           | NA      | NA      | NA       | NA     | NA             |
| 601-40                 | 04/27/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 2.1                        | <0.5                         | <0.5              | <0.5                      | 6.2             | 1.6            | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 11/03/1994 | <2.5                    | <2.5          | 6.2        | 4.4                     | <2.5                   | 15                     | 58                     | NA                         | <2.5                         | 7.6               | 6.1                       | 78              | 5              | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 02/07/1995 | <2.5                    | <2.5          | 5.7        | NA                      | <2.5                   | 16                     | 22                     | 12                         | <2.5                         | 7.5               | 4.3                       | 85              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 05/01/1995 | <0.5                    | <0.5          | 7          | NA                      | <0.5                   | 16                     | 44                     | 4.8                        | <0.5                         | 6.4               | 5.9                       | 99              | 1.4            | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 11/30/1995 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | 8.4                    | 32                     | 5.6                        | <2.5                         | 6.8               | <2.5                      | 71              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 05/30/1996 | <2.5                    | <2.5          | 4.4        | <2.5                    | <2.5                   | 14                     | 42                     | 4.8                        | <2.5                         | 7.6               | 3.2                       | 110             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 12/04/1996 | <2.5                    | <2.5          | 4.4        | 6.7                     | <2.5                   | 12                     | 36                     | 6.1                        | <2.5                         | 4.8               | 4.1                       | 120             | <2.5           | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 601-85                 | 06/18/1997 | <0.5                    | 0.5           | 3.5        | 2.1                     | <0.5                   | 9.4                    | 29                     | 4.1                        | <0.5                         | 3.9               | 2.4                       | 130             | 1.2            | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 12/18/1997 | <2.5                    | NA            | 3          | NA                      | <2.5                   | NA                     | 15                     | NA                         | <2.5                         | 4.5               | 2.5                       | 110             | NA             | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 04/28/1998 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 28                     | 5.3                        | <2.5                         | 6                 | 3.1                       | 190             | 3.4            | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 10/14/1998 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 24                     | 4                          | <2.5                         | 4.1               | <2.5                      | 170             | 2.6            | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 04/27/1999 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 25                     | 3.8                        | <2.5                         | 5.2               | <2.5                      | 160             | 2.8            | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 10/29/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | 30                     | <5.0                       | <5.0                         | 6.3               | <5.0                      | 180             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 04/08/2000 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | 26                     | <5                         | <5                           | 5.1               | <5                        | 190             | <5             | NA      | NA      | NA       | NA     | NA             |
| 601-85                 | 11/02/2000 | NA                      | NA            | NA         | NA                      | <1                     | NA                     | 27                     | 4.1                        | <1                           | 6.7               | 1.6                       | 250             | 4.4            | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 11/07/1994 | <0.5                    | <0.5          | 1.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | 18              | <0.5           | <0.005  | <0.0005 | <0.01    | <0.002 | <0.10          |
| 603-115                | 02/08/1995 | <0.5                    | <0.5          | 1.8        | NA                      | <0.5                   | <0.5                   | <0.5                   | 1                          | <0.5                         | <0.5              | <0.5                      | 20              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 05/02/1995 | <0.5                    | <0.5          | 2.6        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 20              | <0.5           | <0.005  | NA      | <0.01    | NA     | <0.1           |
| 603-115                | 08/02/1995 | <0.5                    | <0.5          | 2.6        | NA                      | <0.5                   | <0.58                  | <0.5                   | 1.7                        | <0.5                         | <0.5              | <0.5                      | 26              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 11/27/1995 | <0.5                    | <0.5          | 3          | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.2                        | <0.5                         | <0.5              | <0.5                      | 13              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 02/07/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 24              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 05/30/1996 | <0.5                    | <0.5          | 2          | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 13              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 07/23/1996 | <0.5                    | <0.5          | 1.9        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.9                        | <0.5                         | <0.5              | <0.5                      | 12              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 12/05/1996 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | 10                         | <2.5                         | <2.5              | <2.5                      | 66              | 70             | <0.005  | NA      | <0.01    | NA     | <0.1           |
| 603-115                | 01/31/1997 | <0.5                    | <0.5          | 1.3        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 12              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 06/12/1997 | <0.5                    | <0.5          | 1.3        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 08/19/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 11              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 12/17/1997 | <0.5                    | NA            | 1.1        | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | 9.3             | NA             | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 04/24/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 3.6                        | <0.5                         | <0.5              | <0.5                      | 7.6             | 11             | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 10/14/1998 | NA                      | NA            | NA         | NA                      | <1                     | NA                     | <1                     | <1                         | <1                           | <1                | <1                        | 16              | <1             | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 11/10/1998 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | NA                     | NA                         | NA                           | NA                | NA                        | NA              | NA             | 0.0037  | NA      | 0.001    | NA     | 1.2            |
| 603-115                | 04/27/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 12              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 11/11/1999 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 45                         | <2.5                         | <2.5              | <2.5                      | 5.5             | 170            | 0.0031  | NA      | <0.0020  | NA     | 0.57           |
| 603-115                | 04/09/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 12              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-115                | 11/07/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 9.1             | <0.5           | 0.0035  | NA      | 0.0023   | NA     | 0.9            |
| 603-170                | 11/07/1994 | <500                    | <500          | <500       | <500                    | <500                   | <500                   | <500                   | NA                         | <500                         | <500              | <500                      | 8100            | <500           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 02/08/1995 | <500                    | <500          | <500       | NA                      | <500                   | <500                   | <500                   | <500                       | <500                         | <500              | <500                      | 15000           | <500           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 05/02/1995 | <500                    | <500          | <500       | NA                      | <500                   | <500                   | <500                   | <500                       | <500                         | <500              | <500                      | 20000           | <500           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 08/03/1995 | <250                    | <250          | <250       | NA                      | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | <250                      | 16000           | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 11/27/1995 | <500                    | <500          | <500       | <500                    | <500                   | <500                   | <500                   | <500                       | <500                         | <500              | <500                      | 14000           | <500           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 02/07/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 13000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 05/30/1996 | <500                    | <500          | <500       | <500                    | <500                   | <500                   | <500                   | <500                       | <500                         | <500              | <500                      | 14000           | <500           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 07/23/1996 | <500                    | <500          | <500       | <500                    | <500                   | <500                   | <500                   | <500                       | <500                         | <500              | <500                      | 11000           | <500           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 12/05/1996 | <25                     | <25           | 53         | <25                     | <25                    | <25                    | <25                    | 110                        | <25                          | <25               | <25                       | 22000           | <25            | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 01/31/1997 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | <250                      | 11000           | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 06/12/1997 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | <250                      | 1800            | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 08/19/1997 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | <250                      | 13000           | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 12/17/1997 | <250                    | NA            | <250       | NA                      | <250                   | NA                     | <250                   | NA                         | <250                         | <250              | <250                      | 8800            | NA             | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 04/24/1998 | NA                      | NA            | NA         | NA                      | <250                   | NA                     | <250                   | <250                       | <250                         | <250              | <250                      | 12000           | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 10/14/1998 | NA                      | NA            | NA         | NA                      | <500                   | NA                     | <500                   | <500                       | <500                         | <500              | <500                      | 11000           | <500           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 04/27/1999 | NA                      | NA            | NA         | NA                      | <250                   | NA                     | <250                   | <250                       | <250                         | <250              | <250                      | 11000           | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 11/11/1999 | NA                      | NA            | NA         | NA                      | <250                   | NA                     | <250                   | <250                       | <250                         | <250              | <250                      | 9500            | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 04/09/2000 | NA                      | NA            | NA         | NA                      | <250                   | NA                     | <250                   | <250                       | <250                         | <250              | <250                      | 8800            | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-170                | 11/07/2000 | NA                      | NA            | NA         | NA                      | <120                   | NA                     | <120                   | <120                       | <120                         | <120              | <120                      | 8900            | 210            | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 11/07/1994 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | NA                         | <250                         | <250              | <250                      | 13000           | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 02/08/1995 | <250                    | <250          | <250       | NA                      | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | <250                      | 9300            | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 05/02/1995 | <250                    | <250          | <250       | NA                      | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | <250                      | 10000           | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 08/03/1995 | <125                    | <125          | <125       | NA                      | <125                   | <125                   | <125                   | <125                       | <125                         | <125              | <125                      | 8800            | <125           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 11/27/1995 | <250                    | <250          | <250       | <250                    | <250                   | 250                    | <250                   | <250                       | <250                         | <250              | <250                      | 6600            | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 02/07/1996 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | <250                      | 7000            | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 05/30/1996 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | <250                      | 6900            | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 07/23/1996 | <125                    | <125          | <125       | <125                    | <125                   | <125                   | <125                   | <125                       | <125                         | <125              | <125                      | 7500            | <125           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 12/05/1996 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | <250                       | <250                         | <250              | <250                      | 7100            | <250           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 01/31/1997 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | <50                    | <50                        | <50                          | <50               | <50                       | 4400            | <50            | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 06/12/1997 | <120                    | <120          | <120       | <120                    | <120                   | <120                   | <120                   | <120                       | <120                         | <120              | <120                      | 5100            | <120           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 08/19/1997 | <120                    | <125          | <120       | <120                    | <120                   | <120                   | <120                   | <120                       | <120                         | <120              | <120                      | 4300            | <120           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 12/17/1997 | <130                    | NA            | <130       | NA                      | <130                   | NA                     | <130                   | NA                         | <130                         | <130              | <130                      | 3400            | NA             | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 04/24/1998 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | <50                    | <50                        | <50                          | <50               | <0.5                      | 3000            | <50            | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 603-205                | 10/14/1995 | NA                      | NA            | NA         | NA                      | <120                   | NA                     | <120                   | <120                       | <120                         | <120              | <120                      | 2900            | <120           | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 04/27/1999 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | <50                    | <50                        | <50                          | <50               | <50                       | 2900            | <50            | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 11/11/1999 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | <50                    | <50                        | <50                          | <50               | <50                       | 2400            | <50            | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 04/09/2000 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | <50                    | <50                        | <50                          | <50               | <50                       | 1700            | <50            | NA      | NA      | NA       | NA     | NA             |
| 603-205                | 11/07/2000 | NA                      | NA            | NA         | NA                      | <120                   | NA                     | <120                   | <120                       | <120                         | <120              | <120                      | 1900            | NA             | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 11/07/1994 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | <50                    | NA                         | <50                          | <50               | <50                       | 3400            | <50            | <0.005  | <0.0005 | <0.01    | <0.002 | 6.2            |
| 603-245                | 02/08/1995 | <50                     | <50           | <50        | NA                      | <50                    | <50                    | <50                    | 82                         | <50                          | <50               | <50                       | 4600            | <50            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 05/02/1995 | <50                     | <50           | <50        | NA                      | <50                    | <50                    | <50                    | <50                        | <50                          | <50               | <50                       | 4200            | <50            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 08/03/1995 | <50                     | <50           | <50        | NA                      | <50                    | <50                    | <50                    | <50                        | <50                          | <50               | <50                       | 5100            | <50            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 11/27/1995 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | <50                    | <50                        | <50                          | <50               | <50                       | 5100            | <50            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 02/07/1996 | <100                    | <100          | <100       | <100                    | <100                   | <100                   | <100                   | <100                       | <100                         | <100              | <100                      | 4600            | <100           | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 05/30/1996 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | <50                    | <50                        | <50                          | <50               | <50                       | 3600            | <50            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 06/19/1996 | <50                     | <50           | <50        | <50                     | <50                    | <50                    | <50                    | <50                        | <50                          | <50               | <50                       | 3400            | <50            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 07/23/1996 | <125                    | <125          | <125       | <125                    | <125                   | <125                   | <125                   | <125                       | <125                         | <125              | <125                      | 3400            | <125           | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 12/05/1996 | <10                     | <10           | <10        | 19                      | <10                    | <10                    | <10                    | 32                         | <10                          | <10               | <10                       | 3300            | <10            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 01/31/1997 | <100                    | <100          | <100       | <100                    | <100                   | <100                   | <100                   | <100                       | <100                         | <100              | <100                      | 2000            | <100           | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 06/12/1997 | <100                    | <100          | <100       | <100                    | <100                   | <100                   | <100                   | <100                       | <100                         | <100              | <100                      | 2100            | <100           | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 08/19/1997 | <100                    | <100          | <100       | <100                    | <100                   | <100                   | <100                   | <100                       | <100                         | <100              | <100                      | 1700            | <100           | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 12/17/1997 | <100                    | NA            | <100       | NA                      | <100                   | NA                     | <100                   | NA                         | <100                         | <100              | <100                      | 1400            | NA             | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 04/24/1998 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | <12                    | <12                        | <12                          | <12               | <12                       | 610             | <12            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 10/14/1998 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | <25                    | <25                        | <25                          | <25               | <25                       | 880             | <25            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 04/27/1999 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | <12                    | <12                        | <12                          | <12               | <12                       | 720             | <12            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 11/11/1999 | NA                      | NA            | NA         | NA                      | <10                    | NA                     | <10                    | <10                        | <10                          | <10               | <10                       | 570             | <10            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 04/09/2000 | NA                      | NA            | NA         | NA                      | <12                    | 1                      | <12                    | <12                        | <12                          | <12               | <12                       | 510             | <12            | NA      | NA      | NA       | NA     | NA             |
| 603-245                | 11/07/2000 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | <12                    | <12                        | <12                          | <12               | <12                       | 350             | <12            | NA      | NA      | NA       | NA     | NA             |
| 603-68                 | 11/07/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | 2               | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-68                 | 02/08/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-68                 | 05/02/1995 | <0.5                    | <0.5          | 0.6        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.8             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-68                 | 08/02/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 11              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-68                 | 11/27/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.6                        | <0.5                         | <0.5              | <0.5                      | 0.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 603-68                 | 02/07/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 21              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 11/08/1994 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | <10                    | NA                         | <10                          | <10               | 28                        | 60              | <10            | <0.005  | <0.0005 | <0.01    | <0.002 | 0.17           |
| 605-105                | 02/09/1995 | <1.0                    | <1.0          | 1.1        | NA                      | <1.0                   | <1.0                   | 7.7                    | 8.6                        | <1.0                         | 2.1               | <1.0                      | 43              | <1.0           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 05/03/1995 | <1.0                    | <1.0          | <1.0       | NA                      | <1.0                   | <1.0                   | 6.5                    | 10                         | <1.0                         | 2.3               | <1.0                      | 45              | <1.0           | 0.007   | NA      | <0.01    | NA     | <0.1           |
| 605-105                | 08/04/1995 | <1.0                    | 1.8           | <1.0       | NA                      | <1.0                   | <1.0                   | 9.7                    | 16                         | <1.0                         | 2.4               | <1.0                      | 39              | <1.0           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 11/28/1995 | <0.5                    | 2.1           | <0.5       | 5.9                     | <0.5                   | <0.5                   | 7.8                    | 12                         | <0.5                         | 2.9               | <0.5                      | 51              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 02/08/1996 | <0.5                    | 1.4           | 0.8        | 2.8                     | <0.5                   | <0.5                   | 6.5                    | 14                         | <0.5                         | 1.3               | <0.5                      | 33              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 05/17/1996 | <0.5                    | 2             | 0.8        | <0.5                    | <0.5                   | <0.5                   | 5.1                    | 14                         | <0.5                         | 2.4               | <0.5                      | 35              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 07/23/1996 | <0.5                    | 1.7           | <0.5       | 4                       | <0.5                   | <0.5                   | 4.7                    | 12                         | <0.5                         | 2.1               | <0.5                      | 33              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 11/21/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | NA                     | NA                         | NA                           | NA                | NA                        | NA              | NA             | NA      | <0.005  | <0.01    | NA     | <0.01          |
| 605-105                | 12/11/1996 | <0.5                    | 2.3           | <0.5       | 5.4                     | <0.5                   | <0.5                   | 4.5                    | 16                         | <0.5                         | 2.6               | <0.5                      | 32              | <0.5           | <0.005  | NA      | <0.01    | NA     | <0.1           |
| 605-105                | 01/31/1997 | <1.0                    | 2.3           | <1.0       | 4.4                     | <1.0                   | <1.0                   | <1.0                   | 15                         | <1.0                         | <1.0              | <1.0                      | 27              | <1.0           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 06/11/1997 | <0.5                    | 2.2           | 0.7        | 4.2                     | <0.5                   | <0.5                   | 4.1                    | 20                         | <0.5                         | 2.1               | <0.5                      | 28              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 08/15/1997 | <0.5                    | 2.2           | <0.5       | 4                       | <0.5                   | <0.5                   | 3.6                    | 20                         | <0.5                         | 2                 | <0.5                      | 26              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 12/11/1997 | <0.5                    | NA            | 0.6        | NA                      | <0.5                   | NA                     | 1.2                    | NA                         | <0.5                         | 1.1               | <0.5                      | 14              | NA             | <0.005  | NA      | <0.01    | NA     | <0.1           |
| 605-105                | 04/22/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 3.1                    | 17                         | <0.5                         | 1.6               | <0.5                      | 12              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 10/15/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 2                      | 14                         | <0.5                         | 0.89              | <0.5                      | 7.5             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 11/10/1997 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | NA                     | NA                         | NA                           | NA                | NA                        | NA              | NA             | 0.0031  | NA      | 0.001    | NA     | <0.05          |
| 605-105                | 04/28/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 1.7                    | 11                         | <0.5                         | 0.88              | <0.5                      | 13              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 12/08/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 1.4                    | 15                         | <0.5                         | 0.71              | <0.5                      | 12              | <0.5           | 0.0037  | NA      | <0.0020  | NA     | <0.50          |
| 605-105                | 04/09/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 1.6                    | 19                         | <0.5                         | <0.5              | <0.5                      | 6.7             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-105                | 11/13/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 1.3                    | 21                         | <0.5                         | <0.5              | <0.5                      | 5.3             | <0.5           | 0.0049  | NA      | <0.001   | NA     | <0.05          |
| 605-170                | 11/07/1994 | <0.5                    | <0.5          | 0.8        | <0.5                    | <0.5                   | <0.5                   | 3.4                    | NA                         | <0.5                         | <0.5              | <0.5                      | 9.5             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 02/09/1995 | <0.5                    | <0.5          | 1.1        | NA                      | <0.5                   | <0.5                   | 3.4                    | 29                         | <0.5                         | 0.6               | <0.5                      | 9.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 05/03/1995 | <0.5                    | <0.5          | 1          | NA                      | <0.5                   | <0.5                   | 4                      | 19                         | <0.5                         | <0.5              | <0.5                      | 10              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 08/04/1995 | <0.5                    | <0.5          | 0.8        | NA                      | <0.5                   | <0.5                   | 3.7                    | 31                         | <0.5                         | <0.5              | <0.5                      | 10              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 11/28/1995 | <0.5                    | <0.5          | 0.7        | 1                       | <0.5                   | <0.5                   | 4.7                    | 11                         | <0.5                         | <0.5              | <0.5                      | 4.6             | 9.1            | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 02/08/1996 | <0.5                    | 5.8           | 1.3        | <0.5                    | <0.5                   | <0.5                   | 3.8                    | 26                         | <0.5                         | <0.5              | <0.5                      | 12              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 05/17/1996 | <0.5                    | <0.5          | 1.2        | <0.5                    | <0.5                   | <0.5                   | 4                      | 28                         | <0.5                         | <0.5              | <0.5                      | 12              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 07/23/1996 | <0.5                    | <0.5          | 0.8        | <0.5                    | <0.5                   | <0.5                   | 4.1                    | 14                         | <0.5                         | <0.5              | <0.5                      | 12              | 0.7            | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 12/11/1996 | <0.5                    | 1             | 1.4        | 5.4                     | <0.5                   | <0.5                   | 3.4                    | 27                         | <0.5                         | <0.5              | 0.6                       | 12              | <0.5           | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 605-170                | 01/31/1997 | <1.0                    | <1.0          | 1.6        | <1.0                    | <1.0                   | <1.0                   | 3.5                    | 29                         | <1.0                         | <1.0              | <1.0                      | 13              | <1.0           | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 06/11/1997 | <0.5                    | 1             | 1.4        | <0.5                    | <0.5                   | <0.5                   | 4.1                    | 34                         | <0.5                         | <0.5              | <0.5                      | 15              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 08/15/1997 | <0.5                    | 1             | 1.6        | <0.5                    | <0.5                   | <0.5                   | 4.5                    | 34                         | <0.5                         | <0.5              | <0.5                      | 15              | 9.8            | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 12/11/1997 | <0.5                    | NA            | 1.5        | NA                      | <0.5                   | NA                     | 4.2                    | NA                         | <0.5                         | 0.5               | <0.5                      | 16              | NA             | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 04/22/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 6.1                    | 34                         | <0.5                         | <0.5              | <0.5                      | 14              | 1.1            | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 10/15/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 3.6                    | 33                         | <0.5                         | <0.5              | <0.5                      | 14              | 1.1            | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 04/28/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 6.3                    | 36                         | <0.5                         | <0.5              | <0.5                      | 18              | 1.6            | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 12/08/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 6.8                    | 39                         | <0.5                         | 0.52              | <0.5                      | 18              | 1.6            | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 04/19/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 5.4                    | 32                         | <0.5                         | NA                | <0.5                      | 156             | 1.1            | NA      | NA      | NA       | NA     | NA             |
| 605-170                | 11/13/2000 | NA                      | NA            | NA         | NA                      | <0.05                  | NA                     | 6                      | 40                         | <0.5                         | 0.58              | <0.5                      | 18              | 1.3            | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 11/07/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | 3.2             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 02/09/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.3             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 05/02/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.7             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 08/04/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 11/28/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.5             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 02/08/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 05/17/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 07/23/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 12/11/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 01/31/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 06/11/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 08/15/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 12/11/1997 | <0.5                    | NA            | <0.5       | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | <0.5            | NA             | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 04/22/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 10/15/1998 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 3.5            | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 01/22/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 2.8            | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 04/28/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 12/08/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 04/09/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-240                | 11/13/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 11/08/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | 1.4                       | 7.5             | <0.5           | 0.006   | <0.0005 | <0.01    | <0.002 | 11             |
| 605-290                | 02/09/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 05/02/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 08/04/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 11/28/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 3.3                    | 6.7                        | <0.5                         | <0.5              | <0.5                      | 3.9             | 4.7            | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 02/08/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 05/17/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.1             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 07/23/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 12/11/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 01/31/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 06/11/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 08/15/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.1             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 12/11/1997 | <0.5                    | NA            | <0.5       | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | <0.5              | <0.5                      | <0.5            | NA             | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 04/22/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.58            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 10/15/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.7             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 04/28/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.58            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 12/08/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 04/09/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.72            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-290                | 11/13/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.62            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-66                 | 11/07/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 0.7                    | NA                         | <0.5                         | <0.5              | <0.5                      | 4               | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-66                 | 02/09/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.8                        | <0.5                         | <0.5              | <0.5                      | 2.7             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-66                 | 05/02/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.2                        | <0.5                         | <0.5              | <0.5                      | 2.3             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-66                 | 08/04/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 1.7                        | <0.5                         | <0.5              | <0.5                      | 1.4             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-66                 | 11/28/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.3                        | <0.5                         | <0.5              | <0.5                      | 0.7             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-66                 | 02/08/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.9                        | <0.5                         | <0.5              | <0.5                      | 1.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-66                 | 05/17/1996 | <0.5                    | <0.5          | 0.5        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.3                        | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-66                 | 07/23/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2               | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-66                 | 12/11/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 0.7                    | 1.4                        | <0.5                         | <0.5              | <0.5                      | 3.2             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 605-66                 | 01/31/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1                          | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 606-102                | 11/09/1994 | <10                     | 63            | <10        | 67                      | <10                    | <10                    | 24                     | NA                         | <10                          | <10               | <10                       | 250             | 87             | NA      | NA      | NA       | NA     | NA             |
| 606-102                | 02/09/1995 | <5.0                    | 48            | <5.0       | NA                      | <5.0                   | 6.4                    | 16                     | 590                        | <5.0                         | 7.7               | <5.0                      | 280             | 66             | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05 | 10             |
| 606-102                | 05/03/1995 | <10                     | 73            | <10        | NA                      | <10                    | <10                    | <10                    | 650                        | <10                          | <10               | <10                       | 320             | 100            | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 08/04/1995 | <10                     | 73            | <10        | NA                      | <10                    | <10                    | <10                    | 630                        | <10                          | <10               | <10                       | 250             | 45             | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 11/27/1995 | <10                     | 120           | <10        | 12                      | <10                    | <10                    | <10                    | 470                        | <10                          | <10               | <10                       | 290             | <10            | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 02/08/1996 | <10                     | 53            | <10        | 15                      | <10                    | <10                    | <10                    | 400                        | <10                          | <10               | <10                       | 310             | 26             | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 05/30/1996 | <10                     | 43            | <10        | <10                     | <10                    | <10                    | <10                    | 320                        | <10                          | <10               | <10                       | 200             | <10            | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 07/24/1996 | <0.5                    | 2             | <0.5       | 1.2                     | <0.5                   | <0.5                   | <0.5                   | 10                         | <0.5                         | <0.5              | <0.5                      | 5.6             | 1.3            | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 12/05/1996 | <5.0                    | 120           | <5.0       | 82                      | <5.0                   | <5.0                   | 12                     | 1200                       | <5.0                         | 10                | <5.0                      | 1000            | 66             | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 02/03/1997 | <5.0                    | 50            | <5.0       | 31                      | <5.0                   | <5.0                   | <5.0                   | 410                        | <5.0                         | <5.0              | <5.0                      | 230             | 24             | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 06/18/1997 | <5.0                    | 39            | 9.2        | 15                      | <5.0                   | <5.0                   | 6.6                    | 410                        | <5.0                         | 5.7               | <5.0                      | 290             | 31             | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 08/18/1997 | <10                     | 46            | <10        | 22                      | <10                    | <10                    | <10                    | 420                        | <10                          | <10               | <10                       | 290             | 18             | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 12/18/1997 | <5.0                    | NA            | 15         | NA                      | <5.0                   | NA                     | <5.0                   | NA                         | <5.0                         | 6                 | <5.0                      | 270             | NA             | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 10/19/1998 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | <12                    | 290                        | <12                          | <12               | <12                       | 210             | 26             | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 10/28/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | <5.0                   | 39                         | <5.0                         | 6.1               | <5.0                      | 18              | 360            | NA      | NA      | NA       | NA   | NA             |
| 606-102                | 11/08/2000 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | <5                     | 19                         | <5                           | <5                | <5                        | 14              | 1.2            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 11/09/1994 | <250                    | 260           | <250       | 3700                    | <250                   | <250                   | 2000                   | NA                         | <250                         | 840               | <250                      | 5100            | <250           | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 02/10/1995 | <250                    | <250          | <250       | NA                      | <250                   | <250                   | 1700                   | 4800                       | <250                         | 780               | <250                      | 6000            | <250           | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 05/03/1995 | <125                    | 500           | <125       | NA                      | <125                   | <125                   | 2000                   | 5000                       | <125                         | 900               | <125                      | 6300            | 290            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 08/04/1995 | <125                    | 400           | <125       | NA                      | <125                   | <125                   | 1700                   | 5500                       | <125                         | 770               | <125                      | 4800            | <125           | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 11/27/1995 | <100                    | 1300          | 330        | 4400                    | <100                   | <100                   | 1500                   | 4900                       | <100                         | 870               | <100                      | 7400            | 110            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 02/08/1996 | <100                    | 520           | 130        | 3700                    | <100                   | <100                   | 1500                   | 4600                       | <100                         | <100              | 680                       | 5500            | 460            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 05/30/1996 | <100                    | 600           | <100       | <100                    | <100                   | <100                   | 1300                   | 3700                       | <100                         | 740               | <100                      | 4500            | 310            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 07/24/1996 | <250                    | 1200          | <250       | 3300                    | <250                   | <250                   | 1600                   | 4200                       | <250                         | 840               | <250                      | 4900            | 820            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 12/05/1996 | <25                     | 600           | <25        | 3200                    | <25                    | <25                    | 1500                   | 4600                       | <25                          | 830               | 26                        | 5600            | 800            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 02/03/1997 | <250                    | 970           | <250       | 3100                    | <250                   | <250                   | 920                    | 4400                       | <250                         | 790               | <250                      | 5600            | 730            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 06/18/1997 | <250                    | 1000          | <250       | 2400                    | <250                   | <250                   | 740                    | 5300                       | <250                         | 600               | <250                      | 4200            | 620            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 08/18/1997 | <250                    | 920           | <250       | 3000                    | <250                   | <250                   | 900                    | 3700                       | <250                         | 580               | <250                      | 4100            | 470            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 12/18/1997 | <50                     | NA            | <50        | NA                      | <50                    | NA                     | 1100                   | NA                         | <50                          | 710               | <50                       | 5000            | NA             | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 11/10/1998 | NA                      | NA            | NA         | NA                      | <120                   | NA                     | 1000                   | 4000                       | <120                         | 570               | <120                      | 4400            | 990            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 10/28/1999 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | 680                    | 2700                       | <50                          | 420               | <50                       | 3000            | 720            | NA      | NA      | NA       | NA   | NA             |
| 606-185                | 11/08/2000 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | 440                    | 2000                       | <50                          | 260               | <50                       | 2000            | 490            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 11/09/1994 | <50                     | 81            | <50        | 2300                    | <50                    | <50                    | 1400                   | NA                         | <50                          | 1500              | <50                       | 2900            | 100            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 02/10/1995 | <125                    | <125          | <125       | NA                      | <125                   | <125                   | 490                    | 2200                       | <125                         | 410               | <125                      | 4400            | <125           | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 05/03/1995 | <125                    | <125          | <125       | NA                      | <125                   | <125                   | 560                    | 2200                       | <125                         | 400               | <125                      | 4300            | <125           | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 08/04/1995 | <125                    | <125          | <125       | NA                      | <125                   | <125                   | 320                    | 2400                       | <125                         | 340               | <125                      | 3200            | <125           | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 11/27/1995 | <50                     | 260           | <50        | 1000                    | <50                    | <50                    | 300                    | 2100                       | <50                          | 370               | <50                       | 4300            | <50            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 02/08/1996 | <50                     | 86            | 58         | 790                     | <50                    | <50                    | 420                    | 2100                       | <50                          | 380               | <50                       | 3600            | 140            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 05/30/1996 | <50                     | 130           | <50        | <50                     | <50                    | <50                    | 470                    | 2300                       | <50                          | 460               | <50                       | 3700            | <50            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 07/24/1996 | <50                     | 200           | <50        | 850                     | <50                    | <50                    | 470                    | 2300                       | <50                          | 430               | <50                       | 3400            | 230            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 12/05/1996 | <25                     | 200           | 87         | 1200                    | <25                    | <25                    | 520                    | 3000                       | <25                          | 550               | <25                       | 4200            | 300            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 02/03/1997 | <100                    | 260           | <100       | 910                     | <100                   | <100                   | 290                    | 1900                       | <100                         | 410               | <100                      | 3100            | 230            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 06/18/1997 | <50                     | 190           | <50        | 690                     | <50                    | <50                    | 270                    | 2300                       | <50                          | 320               | <50                       | 3000            | 150            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 08/18/1997 | <50                     | 220           | 60         | 1000                    | <50                    | <50                    | 360                    | 2300                       | <50                          | 410               | <50                       | 3700            | 200            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 12/18/1997 | <50                     | NA            | <50        | NA                      | <50                    | NA                     | 360                    | NA                         | <50                          | 420               | <50                       | 4000            | NA             | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 11/10/1998 | NA                      | NA            | NA         | NA                      | <62                    | NA                     | 390                    | 1700                       | <62                          | 350               | <62                       | 2800            | 370            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 10/28/1999 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | 340                    | 1500                       | <50                          | 330               | <50                       | 2200            | 330            | NA      | NA      | NA       | NA   | NA             |
| 606-250                | 11/08/2000 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | 290                    | 1200                       | <50                          | 290               | <50                       | 2000            | 290            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 11/08/1994 | <0.5                    | 0.8           | 1.5        | 1.5                     | <0.5                   | <0.5                   | 3                      | NA                         | <0.5                         | 2.5               | <0.5                      | 28              | 5.2            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 02/09/1995 | <0.5                    | <0.5          | 0.6        | NA                      | <0.5                   | <0.5                   | 3.6                    | 31                         | <0.5                         | 3.2               | <0.5                      | 38              | 3.6            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 05/03/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 4.5                    | 37                         | <0.5                         | 3.5               | <0.5                      | 41              | 5.3            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 08/04/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 4.4                    | 41                         | <0.5                         | 4.5               | <0.5                      | 44              | 1.7            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 11/27/1995 | <0.5                    | 4.6           | <0.5       | 31                      | <0.5                   | 1.6                    | 0.8                    | 19                         | <0.5                         | 2.1               | <0.5                      | 5.8             | 180            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 02/08/1996 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | 7.9                    | 46                         | <5.0                         | <5.0              | <5.0                      | 70              | <5.0           | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 05/30/1996 | <0.5                    | 0.8           | <0.5       | <0.5                    | <0.5                   | <0.5                   | 5.9                    | 35                         | <0.5                         | 5.6               | <0.5                      | 60              | 4.1            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 07/24/1996 | <1.0                    | 5             | 1.9        | 19                      | <1.0                   | <1.0                   | 16                     | 86                         | <1.0                         | 17                | <1.0                      | 120             | 8.7            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 12/05/1996 | <0.5                    | 1.3           | 3.7        | 1                       | <0.5                   | <0.5                   | 8.3                    | 73                         | <0.5                         | 9.5               | <0.5                      | 100             | 5.8            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 02/03/1997 | 0.9                     | 1.5           | 1          | <0.5                    | <0.5                   | <0.5                   | 7.2                    | 49                         | <0.5                         | 9.6               | 0.7                       | 78              | 5.5            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 06/18/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 9.7                    | 57                         | <2.5                         | 6.8               | <2.5                      | 85              | 4.1            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 08/15/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 5                      | 39                         | <2.5                         | 6.9               | <2.5                      | 66              | 2.8            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 12/17/1997 | <2.5                    | NA            | <2.5       | NA                      | <2.5                   | NA                     | 2.5                    | NA                         | <2.5                         | 6                 | <2.5                      | 58              | NA             | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 10/19/1998 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | <5                     | 34                         | <5                           | <5                | <5                        | 10              | 210            | NA      | NA      | NA       | NA   | NA             |
| 606-330                | 10/28/1999 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 8.9                    | 44                         | <2.5                         | 10                | <2.5                      | 75              | 7.6            | NA      | NA      | NA       | NA   | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 606-330                | 11/08/2000 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | 8.3                    | 37                         | <2.5                         | 12                | <2.5                      | 7.9             | 5.7            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 11/08/1994 | <10                     | 21            | <10        | 35                      | <10                    | <10                    | <10                    | NA                         | <10                          | <10               | <10                       | 28              | 400            | <0.005  | <0.0005 | <0.01    | <0.002 | <0.10          |
| 606-370                | 02/09/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | <2.5            | 360            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 05/03/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | <10                    | <10                        | <10                          | <10               | <10                       | <10             | 430            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 08/04/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | <10                    | <10                        | <10                          | <10               | <10                       | <10             | 290            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 11/27/1995 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | <5.0                   | <5.0                       | <5.0                         | <5.0              | <5.0                      | <5.0            | 270            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 02/08/1996 | <5.0                    | 8.2           | <5.0       | <5.0                    | <5.0                   | <5.0                   | <5.0                   | <5.0                       | <5.0                         | <5.0              | <5.0                      | <5.0            | 330            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 05/30/1996 | <5.0                    | 13            | <5.0       | <5.0                    | <5.0                   | <5.0                   | <5.0                   | <5.0                       | <5.0                         | <5.0              | <5.0                      | <5.0            | 260            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 07/24/1996 | <5.0                    | 23            | <5.0       | 15                      | <5.0                   | <5.0                   | <5.0                   | 11                         | <5.0                         | <5.0              | <5.0                      | <5.0            | 190            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 12/05/1996 | <0.5                    | 12            | <0.5       | 18                      | <0.5                   | 1                      | <0.5                   | 5.1                        | <0.5                         | <0.5              | <0.5                      | 5.7             | 270            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 02/03/1997 | <1.0                    | 9.7           | <1.0       | 11                      | <1.0                   | <1.0                   | <1.0                   | 3.5                        | <1.0                         | <1.0              | <1.0                      | 1.5             | 190            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 06/18/1997 | <2.5                    | 10            | <2.5       | 7.4                     | <2.5                   | <2.5                   | <2.5                   | 3.5                        | <2.5                         | <2.5              | <2.5                      | <2.5            | 170            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 08/18/1997 | <2.5                    | 11            | <2.5       | 11                      | <2.5                   | <2.5                   | <2.5                   | 3.6                        | <2.5                         | <2.5              | <2.5                      | <2.5            | 130            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 12/17/1997 | <2.5                    | NA            | <2.5       | NA                      | <2.5                   | NA                     | <2.5                   | NA                         | <2.5                         | <2.5              | <2.5                      | <2.5            | NA             | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 11/10/1998 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | <5                     | 4.2                        | <5                           | <5                | <5                        | 10              | 210            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 10/28/1999 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | 4                          | <2.5                         | <2.5              | <2.5                      | <2.5            | 150            | NA      | NA      | NA       | NA     | NA             |
| 606-370                | 11/08/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 3.4                        | <0.5                         | <0.5              | <0.5                      | 1.9             | 85             | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 11/08/1994 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | <5.0                   | <5.0                   | NA                         | <5.0                         | <5.0              | 14                        | <5.0            | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 02/09/1995 | <1.0                    | 1.2           | <1.0       | NA                      | <1.0                   | 3.4                    | 6.2                    | 90                         | <1.0                         | 4.1               | <1.0                      | 21              | 5.1            | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 05/03/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | 66                         | <2.5                         | <2.5              | <2.5                      | 18              | <2.5           | 0.007   | NA      | <0.01    | NA     | <0.1           |
| 606-45                 | 08/04/1995 | <0.5                    | 1.9           | 0.6        | NA                      | <0.5                   | 1.2                    | 2.5                    | 55                         | <0.5                         | 1.8               | <0.5                      | 14              | 1.3            | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 11/27/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | 0.9                    | 1.6                    | 39                         | <0.5                         | 1.5               | <0.5                      | 10              | 1.3            | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 02/08/1996 | <0.5                    | 0.7           | 1.7        | <0.5                    | <0.5                   | <0.5                   | 1.2                    | 49                         | <0.5                         | 0.6               | <0.5                      | 24              | 1.3            | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 05/30/1996 | <0.5                    | 1.7           | 0.8        | <0.5                    | <0.5                   | 0.9                    | 1.3                    | 37                         | <0.5                         | 0.8               | <0.5                      | 21              | 3.5            | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 07/24/1996 | <0.5                    | 2.7           | 1.8        | 1.2                     | <0.5                   | 0.7                    | 1.2                    | 43                         | <0.5                         | 1.4               | <0.5                      | 23              | 1.8            | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 12/05/1996 | <0.5                    | 2.3           | 1.6        | 1.7                     | <0.5                   | <0.5                   | <0.5                   | 26                         | <0.5                         | <0.5              | <0.5                      | 24              | 0.8            | 0.01    | NA      | <0.01    | NA     | <0.1           |
| 606-45                 | 02/03/1997 | <0.5                    | 1.7           | 1.1        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 19                         | <0.5                         | <0.5              | <0.5                      | 7               | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 06/18/1997 | <1.0                    | 7.4           | 3          | 2.6                     | <1.0                   | <1.0                   | <1.0                   | 100                        | <1.0                         | <1.0              | <1.0                      | 15              | 5.1            | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 08/15/1997 | <2.5                    | 8.1           | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | 86                         | <2.5                         | <2.5              | <2.5                      | 5.2             | 3.4            | NA      | NA      | NA       | NA     | NA             |
| 606-45                 | 12/17/1997 | <2.5                    | NA            | <2.5       | NA                      | <2.5                   | NA                     | <2.5                   | NA                         | <2.5                         | <2.5              | <2.5                      | <2.5            | NA             | 0.023   | NA      | <0.01    | NA     | <0.1           |
| 721-185                | 05/04/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 580                    | <10                        | <10                          | 710               | 11                        | 360             | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-185                | 05/29/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 260                    | <10                        | <10                          | 620               | <10                       | 230             | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-185                | 12/04/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 230                    | <10                        | <10                          | 570               | <10                       | 190             | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-185                | 06/17/1997 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 160                    | <10                        | <10                          | 760               | <10                       | 230             | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-185                | 12/16/1997 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 50                     | <10                        | <10                          | 600               | <10                       | 92              | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-280                | 05/04/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | 33                     | 5.1                        | <5.0                         | 340               | <5.0                      | 250             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| 721-280                | 11/29/1995 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 18                     | <10                        | <10                          | 370               | <10                       | 270             | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-280                | 05/29/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 58                     | <10                        | <10                          | 320               | <10                       | 220             | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-280                | 12/04/1996 | <5                      | <5            | <5         | <5                      | <5                     | <5                     | 92                     | 8.5                        | <5                           | 490               | <5                        | 350             | <5             | NA      | NA      | NA       | NA     | NA             |
| 721-280                | 06/17/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | 39                     | 6.8                        | <2.5                         | 300               | <2.5                      | 180             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 721-280                | 12/16/1997 | <5                      | <5            | <5         | <5                      | <5                     | <5                     | 13                     | 5                          | <5                           | 190               | <5                        | 57              | <5             | NA      | NA      | NA       | NA     | NA             |
| 721-45                 | 05/04/1995 | <100                    | <100          | <100       | NA                      | <100                   | 620                    | 3700                   | <100                       | <100                         | <100              | <100                      | <100            | <100           | <0.01   | NA      | <0.01    | NA     | <0.1           |
| 721-45                 | 11/21/1995 | <50                     | <50           | <50        | <50                     | <50                    | 300                    | 3000                   | <50                        | <50                          | <50               | <50                       | <50             | <50            | NA      | NA      | NA       | NA     | NA             |
| 721-45                 | 05/29/1996 | <50                     | <50           | <50        | <50                     | <50                    | 520                    | 3300                   | <50                        | <50                          | <50               | <50                       | <50             | <50            | NA      | NA      | NA       | NA     | NA             |
| 721-45                 | 12/24/1996 | <25                     | <25           | <25        | <25                     | <25                    | 340                    | 1900                   | <25                        | <25                          | <25               | <25                       | <25             | <25            | 0.006   | NA      | 0.01     | NA     | 0.11           |
| 721-45                 | 06/17/1997 | <120                    | <120          | <120       | <120                    | <120                   | 250                    | 3000                   | <120                       | <120                         | <120              | <120                      | <120            | <120           | NA      | NA      | NA       | NA     | NA             |
| 721-45                 | 12/16/1997 | <10                     | <10           | <10        | <10                     | <10                    | 210                    | 1200                   | <10                        | <10                          | 24                | <10                       | <10             | <10            | <0.005  | NA      | <0.01    | NA     | NA             |
| 721-65                 | 05/04/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 1300                   | NA                         | <10                          | 220               | 21                        | 63              | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-65                 | 11/21/1995 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 890                    | <10                        | <10                          | 360               | 18                        | 100             | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-65                 | 05/29/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 840                    | <10                        | <10                          | 490               | 11                        | 120             | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-65                 | 12/04/1996 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 380                    | <10                        | <10                          | 260               | <10                       | 56              | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-65                 | 06/17/1997 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 650                    | <10                        | <10                          | 260               | <10                       | 84              | <10            | NA      | NA      | NA       | NA     | NA             |
| 721-65                 | 12/06/1997 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 400                    | <10                        | 17                           | <10               | <10                       | <10             | <10            | NA      | NA      | NA       | NA     | NA             |
| 722-100                | 05/04/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | 17                | <2.5                      | 65              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| 722-100                | 11/29/1995 | <0.5                    | <0.5          | 1.5        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 6.7                        | <0.5                         | 17                | <0.5                      | 65              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 722-100                | 05/29/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 5.7                        | <0.5                         | 12                | <0.5                      | 83              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 722-100                | 12/02/1996 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 7.5                        | <0.5                         | 6.2               | <0.5                      | 61              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 722-100                | 06/16/1997 | <1.0                    | <1.0          | <1.0       | <1.0                    | <1.0                   | <1.0                   | <1.0                   | 8.5                        | <1.0                         | 5                 | <1.0                      | 85              | <1.0           | NA      | NA      | NA       | NA     | NA             |
| 722-100                | 11/26/1997 | <1                      | <1            | 2.2        | <1                      | <1                     | <1                     | 1.4                    | 5                          | <1                           | 16                | <1                        | 50              | <1             | NA      | NA      | NA       | NA     | NA             |
| 722-190                | 05/04/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 2.5                        | <0.5                         | <0.5              | <0.5                      | 31              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 722-190                | 11/20/1995 | <0.5                    | <0.5          | 0.5        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 4.7                        | <0.5                         | 1.4               | <0.5                      | 58              | <0.5           | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05 | 10             |
| 722-190                | 05/29/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.9                        | <0.5                         | <0.5              | <0.5                      | 30              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-190                | 12/02/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 3.5                        | <0.5                         | 1.3               | <0.5                      | 38              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-190                | 06/16/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.7                        | <0.5                         | 0.8               | <0.5                      | 25              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-190                | 11/26/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.5                        | 0.6                          | 0.8               | <0.5                      | 19              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-280                | 05/04/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 0.9                    | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.8             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-280                | 11/20/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-280                | 05/29/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-280                | 12/02/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-280                | 06/16/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-280                | 11/26/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-47                 | 05/05/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | 61                     | <2.5                       | <2.5                         | 62                | <2.5                      | 14              | <2.5           | 0.009   | NA      | <0.01    | NA   | 0.82           |
| 722-47                 | 11/22/1995 | <5                      | <5            | 11         | <5                      | <5                     | <5                     | 170                    | <5                         | <5                           | 130               | <5                        | 22              | <5             | NA      | NA      | NA       | NA   | NA             |
| 722-47                 | 05/29/1996 | <0.5                    | <0.5          | 5.2        | <0.5                    | 0.9                    | <0.5                   | 210                    | 3.2                        | <0.5                         | 210               | <0.5                      | 33              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 722-47                 | 12/22/1996 | <0.5                    | <0.5          | 9.6        | <0.5                    | <0.5                   | <0.5                   | 53                     | 2.5                        | <0.5                         | 56                | <0.5                      | 39              | <0.5           | 0.038   | NA      | <0.01    | NA   | 0.45           |
| 722-47                 | 11/26/1997 | <0.5                    | <0.5          | 9.8        | <0.5                    | <0.5                   | <0.5                   | 1                      | <0.5                       | <0.5                         | 1.5               | <0.5                      | <0.5            | <0.5           | 0.0032  | NA      | <0.01    | NA   | <0.01          |
| 722-47                 | 06/16/1997 | <2.5                    | <2.5          | 3.1        | <2.5                    | <2.5                   | <2.5                   | 70                     | <2.5                       | <2.5                         | 75                | <2.5                      | 16              | <2.5           | NA      | NA      | NA       | NA   | NA             |
| 729-195                | 05/05/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-195                | 11/30/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 12              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-195                | 05/17/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-195                | 11/20/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-195                | 06/10/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-195                | 11/19/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-285                | 05/05/1995 | <0.5                    | <0.5          | 0.5        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-285                | 11/30/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 6.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-285                | 05/17/1996 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2               | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-285                | 11/20/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-285                | 06/10/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-285                | 11/19/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-50                 | 05/05/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 2.3                        | <0.5                         | <0.5              | <0.5                      | 19              | <0.5           | 0.051   | NA      | <0.01    | NA   | 5.8            |
| 729-50                 | 11/30/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.4                        | <0.5                         | <0.5              | <0.5                      | 19              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-50                 | 05/17/1996 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | 0.8                    | <0.5                   | 3                          | <0.5                         | <0.5              | <0.5                      | 17              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-50                 | 11/29/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2.1                        | <0.5                         | <0.5              | <0.5                      | 12              | <0.5           | 0.051   | NA      | NA       | NA   | 6.1            |
| 729-50                 | 06/10/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 5                          | <0.5                         | <0.5              | <0.5                      | 35              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 729-50                 | 11/19/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 5.8                        | <0.5                         | <0.5              | <0.5                      | 34              | <0.5           | 0.063   | NA      | <0.01    | NA   | 5.5            |
| 729-50                 | 10/19/1998 | NA                      | NA            | NA         | NA                      | <1                     | NA                     | <1                     | 8.8                        | <1                           | <1                | <1                        | 46              | <1             | NA      | NA      | NA       | NA   | NA             |
| 729-50                 | 11/09/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 2.4                    | 3                          | <0.5                         | <0.5              | <0.5                      | <0.5            | 1              | NA      | NA      | NA       | NA   | NA             |
| 729-50                 | 11/14/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 6.3                        | <0.5                         | <0.5              | <0.5                      | 53              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-110                | 05/08/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-110                | 11/30/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.6             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-110                | 05/16/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.3             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-110                | 11/19/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 3.9             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-110                | 06/10/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.5             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-110                | 11/13/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.9             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-110                | 11/09/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.6             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-200                | 05/08/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-200                | 11/30/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-200                | 05/16/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 1              | NA      | NA      | NA       | NA   | NA             |
| 734-200                | 11/19/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-200                | 06/03/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-200                | 11/12/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-200                | 11/09/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 0.92           | NA      | NA      | NA       | NA   | NA             |
| 734-280                | 05/08/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1               | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-280                | 11/30/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-280                | 05/16/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 0.8            | NA      | NA      | NA       | NA   | NA             |
| 734-280                | 11/19/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-280                | 06/03/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-280                | 11/13/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-280                | 11/09/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | 0.6            | NA      | NA      | NA       | NA   | NA             |
| 734-45                 | 05/08/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.4             | <0.5           | <0.005  | NA      | <0.01    | NA   | 0.46           |
| 734-45                 | 11/60/95   | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| 734-45                 | 05/09/1995 | <0.5                    | <0.5          | 5.3        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.8                        | <0.5                         | <0.5              | <0.5                      | 4               | <0.5           | <0.005  | NA      | <0.01    | NA   | 9.7            |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| 734-45                 | 05/16/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 734-45                 | 11/19/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.7             | <0.5           | <0.005  | NA      | <0.01    | NA     | 0.24           |
| 734-45                 | 06/10/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.1             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| 734-45                 | 11/13/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.8             | <0.5           | 0.0054  | NA      | <0.01    | NA     | 0.63           |
| 734-45                 | 11/09/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.7             | 0.73           | NA      | NA      | NA       | NA     | NA             |
| AZNGD-1                | 10/15/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.009   | NA      | <0.01    | NA     | 15             |
| AZNGD-1                | 10/30/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.0061  | NA      | <0.01    | NA     | 9.4            |
| AZNGD-1                | 10/21/1998 | NA                      | NA            | NA         | NA                      | 0.53                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| AZNGD-1                | 12/07/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| AZNGD-1                | 10/25/2000 | NA                      | NA            | NA         | NA                      | 0.75                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| AZNG-2A                | 12/07/1997 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| AZNG-2B                | 12/07/1997 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 03                  | 04/24/1997 | <2.5                    | <2.5          | 8.7        | <2.5                    | <2.5                   | <2.5                   | 6.4                    | 190                        | <2.5                         | 30                | <2.5                      | 740             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 05/01/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 21              | <0.5           | 0.011   | NA      | <0.01    | NA     | 4              |
| EW 18                  | 11/18/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 9.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 05/02/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 13              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 10/25/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 13.6            | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 11/05/1996 | <0.5                    | <0.5          | 1          | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 14              | <0.5           | 0.006   | NA      | <0.01    | NA     | 3.4            |
| EW 18                  | 12/09/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | <0.5                   | NA                         | NA                           | <0.5              | NA                        | 0.78            | NA             | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 04/24/1997 | <0.5                    | <0.5          | 1.4        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 19              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 04/11/1997 | <1                      | <1            | 1.13       | <1                      | <1                     | <1                     | <1                     | <1                         | <1                           | <1                | 21                        | 26              | <1             | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 11/04/1997 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 14              | <0.5           | 0.0066  | NA      | NA       | NA     | 3.4            |
| EW 18                  | 12/04/1997 | <0.5                    | <0.5          | 1.2        | <1                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 04/22/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 11/11/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 04/27/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 19              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 12/15/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 04/08/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 22              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW 18                  | 11/03/2000 | NA                      | NA            | NA         | NA                      | <2.5                   | NA                     | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | 24              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| EW01                   | 05/03/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 1.1                    | <0.5                       | <0.5                         | 21                | <0.5                      | 2.1             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW02                   | 05/04/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 320                        | <0.5                         | 34                | <0.5                      | 800             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW06                   | 05/04/1995 | <0.5                    | <0.5          | 2.7        | NA                      | 0.6                    | 26                     | 63                     | 8.8                        | <0.5                         | 26                | <0.5                      | 42              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW12-128               | 05/09/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | 48                     | 56                     | 7.1                        | <5.0                         | 7.1               | <5.0                      | 280             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| EW12-227               | 05/09/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | 16                         | <2.5                         | <2.5              | <2.5                      | 200             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| EW12-239               | 05/09/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 7               | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW12-78                | 05/09/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | 52                     | 60                     | 7.2                        | <2.5                         | 46                | <2.5                      | 140             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| EW13-118               | 05/10/1995 | <0.5                    | <0.5          | 0.7        | NA                      | <0.5                   | 2.8                    | 10                     | 0.9                        | <0.5                         | 0.6               | <0.5                      | 4.2             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW13-228               | 05/10/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2               | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW13-300               | 05/10/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.2             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW13-68                | 05/10/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | 0.7                    | 4.2                    | NA                         | <0.5                         | 0.6               | <0.5                      | 2.1             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| EW18                   | 05/10/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 21              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 03-B                | 12/02/1994 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | 4600                   | NA                         | <2500                        | <2500             | 68000                     | 820000          | <2500          | 0.017   | <0.0005 | <0.01    | <0.002 | 5.9            |
| MP 03-B                | 02/03/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 3900                   | <25                        | <25                          | 57                | 110000                    | 1300            | <25            | NA      | NA      | NA       | NA     | NA             |
| MP 03-B                | 05/18/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 8700                   | <25                        | <25                          | 66                | 160000                    | 1800            | <25            | 0.022   | NA      | <0.01    | NA     | 40             |
| MP 03-B                | 07/27/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 2400                   | <25                        | <25                          | 40                | 58000                     | 1100            | <25            | NA      | NA      | NA       | NA     | NA             |
| MP 03-B                | 11/20/1995 | <25                     | <25           | <25        | 76                      | <25                    | <25                    | 4200                   | <25                        | <25                          | 69                | 56000                     | 1400            | <25            | NA      | NA      | NA       | NA     | NA             |
| MP 03-B                | 02/12/1996 | <125                    | <125          | <125       | <125                    | <125                   | <125                   | 4600                   | <125                       | <125                         | <125              | 83000                     | 1300            | <125           | NA      | NA      | NA       | NA     | NA             |
| MP 03-B                | 05/15/1996 | <125                    | <125          | <125       | <125                    | <125                   | <125                   | 10000                  | <125                       | <125                         | <125              | 140000                    | 3300            | <125           | NA      | NA      | NA       | NA     | NA             |
| MP 03-B                | 07/19/1996 | <25                     | <25           | <25        | 58                      | <25                    | <25                    | 3700                   | <25                        | <25                          | 56                | 82000                     | 1700            | <25            | NA      | NA      | NA       | NA     | NA             |
| MP 03-B                | 11/20/1996 | <125                    | <125          | <125       | 250                     | 640                    | <125                   | 7400                   | <125                       | <125                         | <125              | 88000                     | 3200            | <125           | 0.023   | NA      | <0.01    | NA     | 25             |
| MP 03-B                | 01/29/1997 | <5000                   | <5000         | <5000      | <5000                   | <5000                  | 22000                  | <5000                  | <5000                      | <5000                        | <5000             | 160000                    | <5000           | <5000          | NA      | NA      | NA       | NA     | NA             |
| MP 03-B                | 05/19/1997 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | 80000                  | <2500                      | <2500                        | <2500             | 370000                    | 20000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 03-B                | 08/13/1997 | <500                    | <500          | <500       | <500                    | <500                   | <500                   | 11000                  | <500                       | <500                         | <500              | 100000                    | 4200            | <500           | NA      | NA      | NA       | NA     | NA             |
| MP 03-B                | 12/09/1997 | <2500                   | NA            | <2500      | NA                      | <2500                  | NA                     | 6500                   | NA                         | <2500                        | <2500             | 92000                     | 4000            | NA             | 0.022   | NA      | <0.01    | NA     | 34             |
| MP 03-D                | 12/02/1994 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | 4600                   | NA                         | <2500                        | <2500             | 120000                    | <2500           | <2500          | 0.009   | <0.0005 | <0.01    | <0.002 | 46             |
| MP 03-D                | 02/07/1995 | <500                    | <500          | 1400       | NA                      | <500                   | <500                   | 3000                   | <500                       | <500                         | 1300              | 25000                     | 360000          | <500           | NA      | NA      | NA       | NA     | NA             |
| MP 03-D                | 05/10/1995 | <500                    | <500          | 950        | NA                      | <500                   | <500                   | 3100                   | <500                       | <500                         | 1800              | 360000                    | 2500000         | <500           | NA      | NA      | NA       | NA     | NA             |
| MP 03-D                | 08/01/1995 | <1000                   | <1000         | <1000      | NA                      | <1000                  | <1000                  | <1000                  | <1000                      | <1000                        | <1000             | 21000                     | 240000          | <1000          | NA      | NA      | NA       | NA     | NA             |
| MP 03-D                | 11/20/1995 | <500                    | <500          | 620        | 4600                    | <500                   | 1100                   | <500                   | <500                       | <500                         | 2900              | 52000                     | 630000          | <500           | NA      | NA      | NA       | NA     | NA             |
| MP 03-D                | 02/12/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | 77000                     | 940000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 03-D                | 05/20/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | 4200                   | <2500                      | <2500                        | <2500             | 67000                     | 410000          | <2500          | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| MP 03-D                | 07/23/1996 | <50000                  | <50000        | <50000     | <50000                  | <50000                 | <50000                 | <50000                 | <50000                     | <50000                       | <50000            | <50000                    | 880000          | <50000         | NA      | NA      | NA       | NA     | NA             |
| MP 03-D                | 11/20/1996 | <2500                   | <2500         | <2500      | 29000                   | <2500                  | <2500                  | 3700                   | <2500                      | <2500                        | 31000             | 470000                    | 13000000        | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 03-D                | 01/30/1997 | <25000                  | <25000        | <25000     | <25000                  | <25000                 | <25000                 | <25000                 | <25000                     | <25000                       | <25000            | 120000                    | 1500000         | <25000         | NA      | NA      | NA       | NA     | NA             |
| MP 03-D                | 05/20/1997 | <50000                  | <2500         | <50000     | <2500                   | <50000                 | <2500                  | <50000                 | <2500                      | <50000                       | <50000            | 100000                    | 1700000         | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 03-D                | 08/13/1997 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | 32000                     | 250000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 03-D                | 12/09/1997 | <25000                  | NA            | <25000     | NA                      | <25000                 | NA                     | 95000                  | NA                         | <25000                       | <250000           | 770000                    | 600000          | NA             | NA      | NA      | NA       | NA     | NA             |
| MP 09-B                | 12/01/1994 | <250                    | <250          | <250       | 990                     | <250                   | <250                   | <250                   | NA                         | <250                         | 540               | <250                      | 5500            | <250           | 0.045   | <0.0005 | <0.01    | <0.002 | 25             |
| MP 09-B                | 02/02/1995 | <250                    | <250          | <250       | NA                      | <250                   | <250                   | <250                   | 850                        | <250                         | <250              | <250                      | 5600            | <250           | NA      | NA      | NA       | NA     | NA             |
| MP 09-B                | 05/18/1995 | <125                    | <125          | <125       | NA                      | <125                   | <125                   | <125                   | 1500                       | <125                         | <125              | <125                      | 4700            | <125           | 0.031   | NA      | <0.01    | NA     | 24             |
| MP 09-B                | 07/28/1995 | <100                    | <100          | <100       | NA                      | <100                   | <100                   | <100                   | 910                        | <100                         | <100              | <100                      | 5700            | <100           | NA      | NA      | NA       | NA     | NA             |
| MP 09-B                | 11/20/1995 | <125                    | <125          | 190        | 580                     | <125                   | <125                   | <125                   | 2300                       | <125                         | 380               | <125                      | 11000           | <125           | NA      | NA      | NA       | NA     | NA             |
| MP 09-B                | 02/12/1996 | <250                    | <250          | <250       | 720                     | <250                   | <250                   | <250                   | 540                        | <250                         | <250              | <250                      | 8200            | <250           | NA      | NA      | NA       | NA     | NA             |
| MP 09-B                | 05/24/1996 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 58                     | 180                        | <25                          | 240               | <25                       | 7300            | 38             | NA      | NA      | NA       | NA     | NA             |
| MP 09-B                | 07/18/1996 | <5.0                    | <5.0          | <5.0       | 26                      | <5.0                   | 5.7                    | 29                     | 6.5                        | <5.0                         | 100               | <5.0                      | 470             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| MP 09-B                | 11/26/1996 | <125                    | <125          | <125       | 820                     | <125                   | <125                   | <125                   | 250                        | <125                         | 610               | <125                      | 9100            | <125           | 0.036   | NA      | <0.01    | NA     | 21             |
| MP 09-B                | 01/27/1997 | <250                    | <250          | <250       | 4000                    | <250                   | <250                   | <250                   | 720                        | <250                         | 2500              | <250                      | 10000           | <250           | NA      | NA      | NA       | NA     | NA             |
| MP 09-B                | 05/13/1997 | <500                    | <500          | <500       | 1500                    | <500                   | <500                   | <500                   | <500                       | <500                         | 1100              | <500                      | 11000           | <500           | NA      | NA      | NA       | NA     | NA             |
| MP 09-B                | 08/12/1997 | <500                    | <500          | <500       | 690                     | <500                   | <500                   | <500                   | <500                       | <500                         | 540               | <500                      | 9500            | <500           | NA      | NA      | NA       | NA     | NA             |
| MP 09-B                | 12/17/1997 | <500                    | NA            | <500       | NA                      | <500                   | NA                     | <500                   | NA                         | <500                         | 600               | <500                      | 10000           | NA             | 0.043   | NA      | <0.01    | NA     | 19             |
| MP 09-D                | 12/01/1994 | <50                     | <50           | <50        | 260                     | <50                    | <50                    | <50                    | NA                         | <50                          | 60                | <50                       | 2500            | 1600           | 0.012   | <0.0005 | <0.01    | <0.002 | 0.43           |
| MP 09-D                | 01/31/1995 | <50                     | <50           | <50        | NA                      | <50                    | <50                    | 61                     | 2100                       | <50                          | <50               | <50                       | 2000            | 1100           | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 05/18/1995 | <50                     | <50           | <50        | NA                      | <50                    | <50                    | <50                    | 1500                       | <50                          | <50               | <50                       | 3700            | 1900           | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 07/28/1995 | <125                    | <125          | <125       | NA                      | <125                   | <125                   | <125                   | 1800                       | <125                         | <125              | <125                      | 3500            | 1100           | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 11/20/1995 | <50                     | <50           | 65         | 120                     | <50                    | <50                    | <50                    | 1000                       | <50                          | 62                | <50                       | 4400            | 2000           | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 02/12/1996 | <125                    | <125          | <125       | <125                    | <125                   | <125                   | <125                   | 950                        | <125                         | <125              | <125                      | 3200            | 1900           | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 05/14/1996 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | 1000                       | <250                         | <250              | <250                      | 5200            | 840            | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 07/18/1996 | <0.5                    | <0.5          | <0.5       | 0.8                     | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 1                 | 0.8                       | 18              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 11/05/1996 | <10                     | <10           | 54         | 100                     | <10                    | <10                    | 30                     | 2200                       | <10                          | 82                | <10                       | 3800            | 600            | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 01/29/1997 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | 1600                       | <250                         | <250              | <250                      | 5600            | <250           | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 05/15/1997 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | 850                        | <250                         | <250              | <250                      | 8400            | <250           | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 08/12/1997 | <250                    | <250          | <250       | <250                    | <250                   | <250                   | <250                   | 360                        | <250                         | <250              | <250                      | 13000           | <250           | NA      | NA      | NA       | NA     | NA             |
| MP 09-D                | 12/17/1997 | <250                    | NA            | <250       | NA                      | <250                   | NA                     | <250                   | NA                         | <250                         | <250              | <250                      | 9000            | NA             | NA      | NA      | NA       | NA     | NA             |
| MP 11-B                | 12/01/1994 | <10                     | <10           | <10        | 32                      | <10                    | 21                     | 140                    | NA                         | <10                          | 220               | 55                        | 960             | <10            | 0.147   | <0.0005 | <0.01    | <0.002 | 49             |
| MP 11-B                | 02/01/1995 | <12.5                   | <12.5         | <12.5      | NA                      | <12.5                  | 13                     | 200                    | 14                         | <12.5                        | 480               | 32                        | 650             | <12.5          | NA      | NA      | NA       | NA     | NA             |
| MP 11-B                | 05/10/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 190                    | <10                        | <10                          | 330               | 29                        | 700             | <10            | 0.1     | NA      | <0.01    | NA     | 35             |
| MP 11-B                | 11/06/1995 | <10                     | <10           | <10        | 33                      | <10                    | 13                     | 65                     | <10                        | <10                          | 120               | 15                        | 580             | <10            | NA      | NA      | NA       | NA     | NA             |
| MP 11-B                | 05/08/1996 | <10                     | <10           | <10        | <10                     | 16                     | <10                    | 64                     | <10                        | <10                          | 160               | 34                        | 810             | <10            | NA      | NA      | NA       | NA     | NA             |
| MP 11-B                | 11/19/1996 | <25                     | <25           | <25        | 76                      | <25                    | <25                    | 100                    | <25                        | <25                          | 560               | <25                       | 890             | <25            | 0.25    | NA      | <0.01    | NA     | 18             |
| MP 11-B                | 05/15/1997 | <2.5                    | <2.5          | <2.5       | 12                      | <2.5                   | 2.5                    | 26                     | 5.6                        | <2.5                         | 69                | <2.5                      | 250             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| MP 11-B                | 12/10/1997 | <25                     | NA            | <25        | NA                      | <25                    | NA                     | 75                     | NA                         | <25                          | 260               | 30                        | 1100            | NA             | 0.37    | NA      | <0.01    | NA     | 8.1            |
| MP 11-B                | 12/11/1998 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | 16                     | <5                         | <5                           | 55                | <5                        | 200             | <5             | NA      | NA      | NA       | NA     | NA             |
| MP 11-B                | 12/09/1999 | NA                      | NA            | NA         | NA                      | <12                    | NA                     | 28                     | <12                        | <12                          | 96                | <12                       | 470             | <12            | NA      | NA      | NA       | NA     | NA             |
| MP 11-B                | 11/07/2000 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | <5                     | <5                         | <5                           | 27                | <5                        | 150             | <5             | NA      | NA      | NA       | NA     | NA             |
| MP 11-D                | 12/01/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | 1                 | <0.5                      | 42              | <0.5           | 0.024   | <0.0005 | <0.01    | <0.002 | 2.8            |
| MP 11-D                | 02/01/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | <5.0                   | 12                         | <5.0                         | 25                | <5.0                      | 310             | <5.0           | NA      | NA      | NA       | NA     | NA             |
| MP 11-D                | 05/10/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 1.1               | 0.5                       | 15              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 11-D                | 11/06/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 1                      | <0.5                       | <0.5                         | 1.5               | <0.5                      | 27              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 11-D                | 05/02/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 3.9             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 11-D                | 10/31/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 0.8                    | <0.5                       | <0.5                         | 1.8               | <0.5                      | 25              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 11-D                | 05/13/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 5.5             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 11-D                | 12/10/1997 | <0.5                    | NA            | <0.5       | NA                      | <0.5                   | NA                     | <0.5                   | NA                         | <0.5                         | <0.5              | 2.6                       | 7.9             | NA             | NA      | NA      | NA       | NA     | NA             |
| MP 11-D                | 12/11/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 10              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 11-D                | 12/09/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 0.61                   | <0.5                       | <0.5                         | 1.1               | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 11-D                | 11/07/2000 | NA                      | NA            | NA         | NA                      | <1                     | NA                     | 2.2                    | <1                         | <1                           | 1.1               | <1                        | 34              | <1             | NA      | NA      | NA       | NA     | NA             |
| MP 13-B                | 05/11/1995 | <125                    | <125          | <125       | NA                      | <125                   | <125                   | <125                   | <125                       | <125                         | <125              | <125                      | 2800            | <125           | 0.01    | NA      | <0.01    | NA     | 0.35           |
| MP 13-B                | 11/03/1995 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | <10                    | 68                         | <10                          | 11                | <10                       | 970             | <10            | NA      | NA      | NA       | NA     | NA             |
| MP 13-B                | 05/28/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 18              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 13-B                | 11/26/1996 | <0.5                    | <0.5          | <0.5       | 1.3                     | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 97              | <0.5           | 0.006   | NA      | <0.01    | NA     | 3.1            |
| MP 13-B                | 04/25/1997 | <2.5                    | <2.5          | <2.5       | 4                       | <2.5                   | <2.5                   | <2.5                   | 55                         | <2.5                         | <2.5              | <2.5                      | 420             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| MP 13-B                | 12/11/1997 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | <10                    | 60                         | <10                          | 20                | <10                       | 1100            | <10            | 0.02    | NA      | <0.01    | NA     | 1.5            |
| MP 13-B                | 12/13/1998 | NA                      | NA            | NA         | NA                      | <25                    | NA                     | <25                    | 87                         | <25                          | 25                | <25                       | 1600            | <25            | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05 | 10             |
| MP 13-B                | 12/09/1999 | NA                      | NA            | NA         | NA                      | <50                    | NA                     | <50                    | 96                         | <50                          | <50               | <50                       | 1500            | <50            | NA      | NA      | NA       | NA   | NA             |
| MP 13-B                | 11/14/2000 | NA                      | NA            | NA         | NA                      | <83                    | NA                     | <83                    | 100                        | <83                          | <83               | <83                       | <83             | <83            | NA      | NA      | NA       | NA   | NA             |
| MP 13-D                | 05/11/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 3.4             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 13-D                | 11/03/1995 | <0.5                    | <0.5          | <0.5       | 1                       | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.3             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 13-D                | 04/25/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 13-D                | 10/23/1996 | <0.5                    | <0.5          | <0.5       | 1.2                     | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | 2.8                       | 22              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 13-D                | 04/28/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1                          | <0.5                         | <0.5              | 1.9                       | 4.5             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 13-D                | 12/10/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.4                        | <0.5                         | <0.5              | <0.5                      | 5.8             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 13-D                | 12/02/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.8                        | <0.5                         | <0.5              | <0.5                      | 2.3             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 13-D                | 12/09/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.64            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 13-D                | 11/15/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | 0.62                       | <0.5                         | <0.5              | <0.5                      | 1.3             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-A                | 07/27/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | 11                     | 2.4                        | <0.5                         | 22                | <0.5                      | 20              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-B                | 04/25/1995 | <0.5                    | <0.5          | 0.7        | NA                      | <0.5                   | <0.5                   | 6.6                    | 19                         | <0.5                         | 12                | 1.4                       | 21              | <0.5           | 0.017   | NA      | 0.018    | NA   | 39             |
| MP 16-B                | 11/01/1995 | <0.5                    | <0.5          | 0.6        | 8.8                     | <0.5                   | <0.5                   | 5.2                    | 13                         | <0.5                         | 11                | <0.5                      | 21              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-B                | 05/07/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 4.8                    | 12                         | <0.5                         | 7.3               | <0.5                      | 18              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-B                | 11/06/1996 | <0.5                    | <0.5          | 0.8        | 3.6                     | <0.5                   | <0.5                   | 1.8                    | 17                         | <0.5                         | 5.3               | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-B                | 04/23/1997 | <0.5                    | <0.5          | 0.84       | 2.1                     | <0.5                   | <0.5                   | 2.1                    | 7.5                        | <0.5                         | 7.2               | <0.5                      | 19              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-B                | 12/11/1997 | <0.5                    | <0.5          | 0.8        | 3.7                     | <0.5                   | <0.5                   | 2.7                    | 6.8                        | <0.5                         | 8.5               | 1.7                       | 20              | <0.5           | 0.012   | NA      | 0.011    | NA   | 59             |
| MP 16-B                | 11/24/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 1.1                    | 8.8                        | <0.5                         | 2.2               | <0.5                      | 11              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-B                | 12/06/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 1.7                    | 9.6                        | <0.5                         | 3.6               | <0.5                      | 16              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-B                | 11/08/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | 1.9                    | 2.7                        | <0.5                         | 4.5               | <0.5                      | 9.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-D                | 04/25/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | 1.6                       | 1.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-D                | 11/01/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 0.8               | <0.5                      | 2.7             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-D                | 04/29/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 8.2             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-D                | 11/01/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.1                        | <0.5                         | 3                 | <0.5                      | 7               | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-D                | 04/29/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 1.2                        | <0.5                         | 0.9               | 1.7                       | 5.4             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-D                | 12/15/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.4             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-D                | 12/11/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | 0.51              | <0.5                      | 2.3             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-D                | 12/08/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.4             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 16-D                | 11/13/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.69            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 20-A                | 04/18/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 6.2             | <0.5           | 0.046   | NA      | <0.01    | NA   | 6              |
| MP 20-A                | 11/05/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.04    | NA      | <0.01    | NA   | 5.7            |
| MP 20-A                | 11/17/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 20-A                | 12/07/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 20-A                | 11/09/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 20-B                | 04/18/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.2             | <0.5           | 0.081   | NA      | <0.01    | NA   | 7.5            |
| MP 20-B                | 10/21/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.057   | NA      | <0.01    | NA   | 7.4            |
| MP 20-B                | 12/19/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 6.1             | <0.5           | 0.075   | NA      | <0.01    | NA   | 6.6            |
| MP 20-B                | 12/02/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 20-B                | 12/08/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 20-B                | 11/09/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 25-A                | 04/20/1995 | <0.5                    | <0.5          | 1          | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 25-B                | 04/20/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.024   | NA      | <0.01    | NA   | 14             |
| MP 25-B                | 11/22/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.5             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 25-B                | 11/21/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | 0.007   | NA      | <0.01    | NA   | 19             |
| MP 25-B                | 12/17/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 2.8             | <0.5           | 0.0092  | NA      | <0.01    | NA   | 19             |
| MP 25-D                | 04/20/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.9             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 25-D                | 12/30/1996 | <0.5                    | <0.5          | <0.5       | 0.9                     | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | 3                         | 94              | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 25-D                | 12/18/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 4.3             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 25-D                | 12/21/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 25-D                | 11/17/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 28-A                | 04/24/1995 | <0.5                    | <0.5          | 2.7        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.4             | <0.5           | 0.008   | NA      | <0.01    | NA   | 16             |
| MP 28-A                | 11/02/1995 | <0.5                    | <0.5          | 1.3        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 5.8             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 28-A                | 12/06/1997 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 28-A                | 11/18/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 28-A                | 12/14/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 28-A                | 11/16/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | <0.5    | NA      | NA       | NA   | NA             |
| MP 28-B                | 04/24/1995 | <0.5                    | <0.5          | 1.5        | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 0.5             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 28-B                | 11/21/1996 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | 0.6                       | 6.1             | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 28-B                | 12/11/1997 | <0.5                    | <0.5          | 0.6        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | 0.7                       | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |
| MP 30-A                | 11/02/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | 9                      | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA   | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead   | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|--------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05   | 10             |
| MP 30-B                | 05/22/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | 80              | <2.5           | 0.019   | NA      | 0.01     | NA     | 6              |
| MP 30-B                | 11/02/1995 | 0.8                     | <0.5          | 1.1        | <0.5                    | 1                      | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 66              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 30-B                | 05/07/1996 | 2.5                     | <0.5          | 1.4        | <0.5                    | 1.8                    | <0.5                   | <0.5                   | <0.5                       | <0.5                         | 0.9               | <0.5                      | 84              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 30-B                | 11/07/1996 | 2                       | <0.5          | 1.2        | <0.5                    | <0.5                   | 2                      | <0.5                   | <0.5                       | <0.5                         | 0.7               | <0.5                      | 120             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 30-B                | 05/02/1997 | 1.3                     | <0.5          | <0.5       | <0.5                    | 2.6                    | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 73              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 30-B                | 12/15/1997 | 2.5                     | <2.5          | <2.5       | <2.5                    | 3                      | <2.5                   | 3                      | <2.5                       | <2.5                         | <2.5              | <2.5                      | 36              | 3              | 0.018   | NA      | 0.016    | NA     | 4.6            |
| MP 30-B                | 12/20/1998 | NA                      | NA            | NA         | NA                      | 1.7                    | NA                     | <1.2                   | <1.2                       | <1.2                         | <1.2              | <1.2                      | 84              | <1.2           | NA      | NA      | NA       | NA     | NA             |
| MP 30-B                | 12/14/1999 | NA                      | NA            | NA         | NA                      | <5.0                   | NA                     | <5.0                   | <5.0                       | <5.0                         | <5.0              | <5.0                      | 45              | <5.0           | NA      | NA      | NA       | NA     | NA             |
| MP 30-B                | 10/25/2000 | NA                      | NA            | NA         | NA                      | <5                     | NA                     | <5                     | <5                         | <5                           | <5                | <5                        | 33              | <5             | NA      | NA      | NA       | NA     | NA             |
| MP 30-D                | 05/22/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 11              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 30-D                | 11/07/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 21              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 30-D                | 12/15/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 19              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 30-D                | 12/14/1998 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.7             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 30-D                | 12/14/1999 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 3.6             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 30-D                | 11/10/2000 | NA                      | NA            | NA         | NA                      | <0.5                   | NA                     | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1.8             | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 11/29/1994 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | <10                    | NA                         | <10                          | <10               | <10                       | 330             | <10            | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 02/01/1995 | <2.5                    | 4.8           | <2.5       | NA                      | <2.5                   | <2.5                   | 7.1                    | NA                         | 13                           | <2.5              | <2.5                      | 4.6             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 05/12/1995 | <2.5                    | 9.6           | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | 130             | <2.5           | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 07/31/1995 | <2.5                    | 18            | <2.5       | NA                      | <2.5                   | <2.5                   | <2.5                   | 4.4                        | <2.5                         | <2.5              | <2.5                      | 140             | 8              | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 11/17/1995 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | 92              | <2.5           | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 02/09/1996 | <0.5                    | 1.6           | 1.3        | 2                       | <0.5                   | 1                      | 1.3                    | 2                          | <0.5                         | 1.8               | 5.6                       | 42              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 05/06/1996 | <2.5                    | 290           | 6.5        | <2.5                    | <2.5                   | 14                     | 8.2                    | 310                        | <2.5                         | 3.4               | <2.5                      | 13              | 490            | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 07/15/1996 | <10                     | 98            | <10        | 71                      | <10                    | <10                    | <10                    | 120                        | <10                          | <10               | <10                       | 34              | 290            | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 11/15/1996 | <0.5                    | 17            | 1          | 22                      | <0.5                   | 1.3                    | 1.9                    | 29                         | <0.5                         | 5.3               | 1.7                       | 21              | 26             | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 01/27/1997 | <2.5                    | 7             | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | 10                         | <2.5                         | <2.5              | 3.9                       | 44              | <7.8           | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 05/15/1997 | <0.5                    | 2.8           | 2.5        | 6.1                     | <0.5                   | <0.5                   | 1.3                    | 4.1                        | <0.5                         | 3.2               | 1.8                       | 25              | 2.1            | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 08/08/1997 | <0.5                    | 1.6           | 2.7        | 4.1                     | <0.5                   | <0.5                   | 0.5                    | 1.3                        | <0.5                         | 2.1               | 0.8                       | 24              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 36-A                | 12/16/1997 | <0.5                    | 3.9           | 1.3        | 2.4                     | <0.5                   | <0.5                   | <0.5                   | 5.3                        | <0.5                         | 1.9               | <0.5                      | 37              | <0.5           | NA      | NA      | NA       | NA     | NA             |
| MP 36-B                | 11/29/1994 | <10                     | <10           | <10        | 41                      | <10                    | <10                    | 990                    | NA                         | <10                          | 41                | 1200                      | 1300            | <10            | 0.054   | <0.0005 | <0.01    | <0.002 | 25             |
| MP 36-B                | 02/02/1995 | <10                     | <10           | <10        | NA                      | <10                    | <10                    | 1300                   | <10                        | <10                          | 23                | 920                       | 1800            | <10            | NA      | NA      | NA       | NA     | NA             |
| MP 36-B                | 05/12/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 1800                   | <25                        | <25                          | 890               | <25                       | 2300            | <25            | 0.045   | NA      | <0.01    | NA     | 21             |
| MP 36-B                | 07/31/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 1600                   | <25                        | <25                          | <25               | 2100                      | 1300            | <25            | NA      | NA      | NA       | NA     | NA             |
| MP 36-B                | 11/17/1995 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 1700                   | <25                        | <25                          | <25               | 1700                      | 1400            | <25            | NA      | NA      | NA       | NA     | NA             |
| MP 36-B                | 02/09/1996 | <25                     | <25           | <25        | 43                      | <25                    | <25                    | 1900                   | <25                        | <25                          | 44                | 1400                      | 2200            | <25            | NA      | NA      | NA       | NA     | NA             |
| MP 36-B                | 05/06/1996 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 1000                   | 72                         | <25                          | 240               | 1500                      | 1100            | <25            | NA      | NA      | NA       | NA     | NA             |
| MP 36-B                | 07/15/1996 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 2100                   | <25                        | <25                          | 62                | 5800                      | 1800            | <25            | NA      | NA      | NA       | NA     | NA             |
| MP 36-B                | 11/19/1996 | <125                    | <125          | <125       | <125                    | <125                   | <125                   | 1300                   | <125                       | <125                         | <125              | 3200                      | 1100            | <1250          | 0.03    | NA      | <0.01    | NA     | 24             |
| MP 36-B                | 01/27/1997 | <25                     | <25           | <25        | <25                     | <25                    | <25                    | 890                    | <25                        | <25                          | <25               | 2200                      | 1000            | <25            | NA      | NA      | NA       | NA     | NA             |
| MP 36-B                | 05/16/1997 | <10                     | <10           | <10        | <10                     | <10                    | <10                    | 340                    | <10                        | <10                          | 26                | 400                       | 330             | <10            | NA      | NA      | NA       | NA     | NA             |
| MP 36-B                | 08/08/1997 | <1200                   | <1200         | <1200      | <1200                   | <1200                  | <1200                  | <1200                  | <1200                      | <1200                        | <1200             | 2600                      | 1400            | <1200          | NA      | NA      | NA       | NA     | NA             |
| MP 36-B                | 12/16/1997 | <25                     | NA            | <25        | NA                      | <25                    | NA                     | 1100                   | NA                         | <25                          | 35                | 1100                      | 2200            | NA             | 0.041   | NA      | <0.01    | NA     | 8.5            |
| MP 36-C                | 11/29/1994 | <500                    | <500          | <500       | <500                    | <500                   | <500                   | 640                    | NA                         | <500                         | <500              | <500                      | 66000           | <500           | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 02/02/1995 | <2500                   | <2500         | <2500      | NA                      | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 60000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 05/12/1995 | <2500                   | <2500         | <2500      | NA                      | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 81000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 07/31/1995 | <2500                   | <2500         | <2500      | NA                      | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 48000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 11/17/1995 | <500                    | <500          | <500       | <500                    | <500                   | <500                   | 820                    | <500                       | <500                         | <500              | <500                      | 7500            | <500           | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 02/09/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 76000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 05/13/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 80000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 07/18/1996 | <125                    | <125          | <125       | <125                    | <125                   | <125                   | 2300                   | <125                       | <125                         | 7400              | <125                      | 1600            | <125           | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 11/19/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 70000           | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 01/27/1997 | <2500                   | <2500         | 6300       | <2500                   | <2500                  | <2500                  | 23000                  | <2500                      | <2500                        | 4000              | <2500                     | 140000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 05/16/1997 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 130000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 08/08/1997 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 180000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-C                | 12/16/1997 | <1000                   | <1000         | <1000      | <1000                   | <1000                  | <1000                  | <1000                  | <1000                      | <1000                        | <1000             | <1000                     | 44000           | <1000          | NA      | NA      | NA       | NA     | NA             |
| MP 36-D                | 11/30/1994 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | NA                         | <2500                        | <2500             | <2500                     | 100000          | <2500          | 0.013   | <0.0005 | <0.01    | <0.002 | 35             |
| MP 36-D                | 02/06/1995 | <1250                   | <1250         | <1250      | NA                      | <1250                  | <1250                  | 1600                   | <1250                      | <1250                        | <1250             | <1250                     | 150000          | <1250          | NA      | NA      | NA       | NA     | NA             |
| MP 36-D                | 05/12/1995 | <1250                   | <1250         | <1250      | NA                      | <1250                  | <1250                  | <1250                  | <1250                      | <1250                        | <1250             | <1250                     | 91000           | <1250          | NA      | NA      | NA       | NA     | NA             |
| MP 36-D                | 08/10/1995 | <2500                   | <2500         | <2500      | NA                      | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 200000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-D                | 11/17/1995 | <500                    | <500          | <500       | <500                    | <500                   | <500                   | 920                    | 1800                       | <500                         | <500              | <500                      | 130000          | <500           | NA      | NA      | NA       | NA     | NA             |
| MP 36-D                | 02/09/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 120000          | <2500          | NA      | NA      | NA       | NA     | NA             |
| MP 36-D                | 05/15/1996 | <500                    | <500          | <500       | <500                    | <500                   | <500                   | 1100                   | <500                       | <500                         | <500              | <500                      | 200000          | <500           | NA      | NA      | NA       | NA     | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead  | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|-------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05  | 10             |
| MP 36-D                | 07/19/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 240000          | <2500          | NA      | NA      | NA       | NA    | NA             |
| MP 36-D                | 11/20/1996 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 120000          | <2500          | NA      | NA      | NA       | NA    | NA             |
| MP 36-D                | 01/29/1997 | <5000                   | <5000         | <5000      | <5000                   | <5000                  | <5000                  | <5000                  | <5000                      | <5000                        | <5000             | <5000                     | 270000          | <5000          | NA      | NA      | NA       | NA    | NA             |
| MP 36-D                | 05/16/1997 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 150000          | <2500          | NA      | NA      | NA       | NA    | NA             |
| MP 36-D                | 08/11/1997 | <2500                   | <2500         | <2500      | <2500                   | <2500                  | <2500                  | <2500                  | <2500                      | <2500                        | <2500             | <2500                     | 210000          | <2500          | NA      | NA      | NA       | NA    | NA             |
| MP 36-D                | 12/16/1997 | <5000                   | NA            | <5000      | NA                      | <5000                  | NA                     | <5000                  | NA                         | <5000                        | <5000             | <5000                     | 120000          | NA             | NA      | NA      | NA       | NA    | NA             |
| MP 37-C                | 10/24/1994 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | NA                         | <0.5                         | <0.5              | 1.3                       | 20              | <0.5           | 0.022   | <0.0005 | <0.01    | 0.003 | 0.34           |
| MP 37-C                | 01/30/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 3.5                        | <0.5                         | <0.5              | 0.7                       | 56              | <0.5           | NA      | NA      | NA       | NA    | NA             |
| MP 37-C                | 04/26/1995 | <0.5                    | <0.5          | <0.5       | NA                      | <0.5                   | <0.5                   | <0.5                   | 5.6                        | <0.5                         | <0.5              | 1.4                       | 13              | <0.5           | NA      | NA      | NA       | NA    | NA             |
| MP 37-C                | 11/09/1995 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 14                         | <0.5                         | <0.5              | 0.6                       | 14              | <0.5           | NA      | NA      | NA       | NA    | NA             |
| MP 37-C                | 05/03/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 9                          | <0.5                         | <0.5              | 0.7                       | 9.7             | <0.5           | NA      | NA      | NA       | NA    | NA             |
| MP 37-C                | 11/01/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 14                         | <0.5                         | <0.5              | <0.5                      | 7.2             | <0.5           | NA      | NA      | NA       | NA    | NA             |
| MP 37-C                | 04/25/1997 | <2.5                    | <2.5          | <2.5       | <2.5                    | <2.5                   | <2.5                   | <2.5                   | <2.5                       | <2.5                         | <2.5              | <2.5                      | <2.5            | <2.5           | NA      | NA      | NA       | NA    | NA             |
| MP 37-C                | 12/08/1997 | <2.5                    | NA            | <2.5       | NA                      | <2.5                   | NA                     | <2.5                   | NA                         | <2.5                         | <2.5              | <2.5                      | <2.5            | NA             | NA      | NA      | NA       | NA    | NA             |
| PZ01                   | 05/01/1997 | <0.5                    | <0.5          | 1.1        | <0.5                    | <0.5                   | <0.5                   | 1.3                    | <0.5                       | <0.5                         | 1.8               | 4.4                       | 52              | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ02                   | 05/24/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | 8.3                    | 6.3                        | <5.0                         | 91                | <5.0                      | 350             | <5.0           | NA      | NA      | NA       | NA    | NA             |
| PZ02                   | 11/20/1995 | <0.5                    | <0.5          | 4.6        | 34                      | <0.5                   | 8.8                    | 0.9                    | 6.4                        | <0.5                         | 77                | <0.5                      | 370             | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ02                   | 05/08/1996 | <0.5                    | <0.5          | 3.3        | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 2                          | <0.5                         | 36                | <0.5                      | 110             | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ02                   | 11/08/1996 | <5                      | <5            | <5         | 9.2                     | <5                     | <5                     | <5                     | <5                         | <5                           | 52                | <5                        | 230             | <5             | NA      | NA      | NA       | NA    | NA             |
| PZ02                   | 05/05/1997 | <0.5                    | <0.5          | 2          | 1                       | <1.0                   | <0.5                   | 1.2                    | 1.6                        | <0.5                         | 28                | <1.0                      | 110             | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ02                   | 11/01/1997 | 0.6                     | <0.5          | 2.7        | 1.8                     | <0.5                   | <0.5                   | 1.9                    | 2.1                        | 0.6                          | 31                | 0.6                       | 240             | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ03                   | 12/12/1996 | NA                      | NA            | NA         | NA                      | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 4.2             | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ04                   | 05/24/1995 | <10                     | <10           | <10        | NA                      | <10                    | 45                     | 250                    | 120                        | <10                          | 790               | <10                       | 400             | <10            | NA      | NA      | NA       | NA    | NA             |
| PZ04                   | 11/21/1995 | <10                     | <10           | 15         | 52                      | <10                    | 24                     | 160                    | 62                         | <10                          | 470               | <10                       | 220             | <10            | NA      | NA      | NA       | NA    | NA             |
| PZ04                   | 05/08/1996 | <5.0                    | <5.0          | <5.0       | <5.0                    | <5.0                   | 11                     | 41                     | 26                         | <5.0                         | 240               | <5.0                      | 210             | <5.0           | NA      | NA      | NA       | NA    | NA             |
| PZ04                   | 05/15/1996 | <2.5                    | <2.5          | <2.5       | 3.4                     | <2.5                   | 10                     | 41                     | 18                         | <2.5                         | 210               | <2.5                      | 200             | <2.5           | NA      | NA      | NA       | NA    | NA             |
| PZ04                   | 11/15/1996 | <5                      | <5            | <5         | 29                      | <5                     | 5.7                    | 5.5                    | 13                         | <5                           | 80                | <5                        | 180             | <5             | NA      | NA      | NA       | NA    | NA             |
| PZ04                   | 12/19/1996 | NA                      | NA            | NA         | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | <0.5            | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ04                   | 05/05/1997 | <1.0                    | <1.0          | <10.0      | 29                      | <1.0                   | <1.0                   | 7                      | 5.3                        | <1.0                         | 30                | 9.7                       | 90              | <1.0           | NA      | NA      | NA       | NA    | NA             |
| PZ04                   | 11/11/1997 | <1                      | <1            | 2          | 58                      | <1                     | 61.4                   | 6.2                    | 8                          | <1                           | 43                | 1.4                       | 70              | <1             | NA      | NA      | NA       | NA    | NA             |
| PZ05                   | 12/11/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | <0.5                   | NA                         | NA                           | <0.5              | NA                        | 1.3             | NA             | NA      | NA      | NA       | NA    | NA             |
| PZ06                   | 05/24/1995 | <25                     | <25           | <25        | NA                      | <25                    | <25                    | 180                    | 200                        | <25                          | 290               | <25                       | 510             | 190            | NA      | NA      | NA       | NA    | NA             |
| PZ06                   | 11/21/1995 | <10                     | 38            | 13         | 280                     | <10                    | <10                    | 60                     | 120                        | <10                          | 98                | 40                        | 330             | 100            | NA      | NA      | NA       | NA    | NA             |
| PZ06                   | 05/20/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | 19                     | 3.9                        | <0.5                         | 5.2               | 41                        | 38              | 2.3            | NA      | NA      | NA       | NA    | NA             |
| PZ06                   | 11/07/1996 | <0.5                    | 1.6           | <0.5       | 11                      | <0.5                   | 18                     | 11                     | 3                          | <0.5                         | 4.4               | <0.5                      | 37              | 1              | NA      | NA      | NA       | NA    | NA             |
| PZ06                   | 12/11/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | <0.5                   | NA                         | NA                           | <0.5              | NA                        | <0.5            | NA             | NA      | NA      | NA       | NA    | NA             |
| PZ06                   | 05/05/1997 | <0.5                    | <0.5          | <5.0       | 3.6                     | <0.5                   | 0.7                    | 3                      | 1.7                        | <0.5                         | 8.6               | 3.3                       | 18              | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ06                   | 11/10/1997 | <0.5                    | <0.5          | 0.6        | 35                      | <0.5                   | 0.6                    | 11                     | 2.8                        | 0.5                          | 17                | <0.5                      | 170             | 0.6            | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 01/31/1995 | <2.5                    | <2.5          | <2.5       | NA                      | <2.5                   | <2.5                   | 37                     | 110                        | <2.5                         | 14                | 71                        | 64              | 38             | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 05/24/1995 | <5.0                    | <5.0          | <5.0       | NA                      | <5.0                   | <5.0                   | 59                     | 190                        | <5.0                         | 8.5               | 76                        | 170             | 64             | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 07/27/1995 | <10                     | 30            | <10        | NA                      | <10                    | 28                     | 190                    | 120                        | 11                           | 390               | 58                        | 350             | 62             | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 11/21/1995 | <5                      | 21            | 25         | 78                      | <5                     | <5                     | 31                     | 140                        | <5                           | 11                | 67                        | 130             | 51             | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 07/22/1996 | <0.5                    | <0.5          | <0.5       | 14                      | <0.5                   | <0.5                   | 12                     | 17                         | <0.5                         | 4.3               | 39                        | 34              | 2              | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 12/02/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | <5                     | NA                         | NA                           | <5                | NA                        | <5              | NA             | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 02/13/1997 | <0.5                    | <0.5          | <0.5       | 15                      | <0.5                   | <0.5                   | 14                     | 20                         | <0.5                         | 4.6               | 30                        | 35              | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 05/03/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | <0.5                      | 1               | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 11/07/1996 | <2.5                    | <2.5          | <2.5       | 29                      | <2.5                   | <2.5                   | 11                     | 17                         | <2.5                         | 7.6               | 57                        | 46              | <2.5           | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 01/28/1997 | <2.5                    | <2.5          | <2.5       | 24                      | <2.5                   | <2.5                   | 9                      | 15                         | <2.5                         | 3.9               | 50                        | 110             | <2.5           | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 04/30/1997 | <0.5                    | <0.5          | <0.5       | 7                       | <0.5                   | <0.5                   | 2.8                    | 5.3                        | <0.5                         | 2.1               | 13                        | 10              | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 08/08/1997 | <0.5                    | <0.5          | <0.5       | 19                      | <0.5                   | <0.5                   | 5.6                    | 10                         | <0.5                         | 5                 | 37                        | 27              | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ07                   | 11/10/1997 | <0.5                    | <0.5          | <0.5       | 16                      | <0.5                   | <0.5                   | 4.7                    | 8.1                        | 0.7                          | 5                 | 28                        | 16              | 0.6            | NA      | NA      | NA       | NA    | NA             |
| PZ08                   | 12/12/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | <5                     | NA                         | NA                           | 21                | NA                        | <10             | NA             | NA      | NA      | NA       | NA    | NA             |
| PZ09                   | 05/24/1995 | <10                     | 200           | <10        | NA                      | <10                    | <10                    | <10                    | 98                         | <10                          | <10               | <10                       | <10             | 240            | NA      | NA      | NA       | NA    | NA             |
| PZ09                   | 11/20/1995 | <0.5                    | 6.1           | <0.5       | 5.8                     | <0.5                   | <0.5                   | <0.5                   | <0.5                       | <0.5                         | <0.5              | 94                        | 4.4             | 5              | NA      | NA      | NA       | NA    | NA             |
| PZ09                   | 05/03/1996 | <0.5                    | <0.5          | 0.8        | <0.5                    | 0.6                    | 1.2                    | 32                     | 49                         | <0.5                         | 9.6               | 94                        | 88              | 4.1            | NA      | NA      | NA       | NA    | NA             |
| PZ09                   | 11/08/1996 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.6                        | <0.5                         | <0.5              | <0.5                      | 1.3             | 0.6            | NA      | NA      | NA       | NA    | NA             |
| PZ09                   | 12/13/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | <5                     | NA                         | NA                           | <5                | NA                        | <5              | NA             | NA      | NA      | NA       | NA    | NA             |
| PZ09                   | 04/17/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <5                     | <0.5                   | 1                          | <0.5                         | <0.5              | <0.5                      | 1.5             | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ09                   | 11/10/1997 | <0.5                    | <0.5          | <0.5       | <0.5                    | <0.5                   | <0.5                   | <0.5                   | 0.9                        | <0.5                         | <0.5              | <0.5                      | 1.5             | <0.5           | NA      | NA      | NA       | NA    | NA             |
| PZ10                   | 02/01/1995 | <12.5                   | 120           | <12.5      | NA                      | 1200                   | 91                     | <12.5                  | 1400                       | <12.5                        | 97                | 43                        | 54              | 1300           | NA      | NA      | NA       | NA    | NA             |
| PZ10                   | 05/24/1995 | <100                    | <100          | <100       | NA                      | <100                   | 140                    | <100                   | 340                        | <100                         | <100              | <100                      | <100            | 1200           | NA      | NA      | NA       | NA    | NA             |

TABLE 6: WATER QUALITY DATA FROM NOV. 1994 TO DEC. 2000  
MOTOROLA 52ND STREET SUPERFUND SITE OU1

| Well #                 | Date       | Carbon<br>Tetrachloride | Chlorobenzene | Chloroform | 1,2-<br>Dichlorobenzene | 1,2-<br>Dichloroethane | 1,1-<br>Dichloroethane | 1,1-<br>Dichloroethene | cis-1,2-<br>Dichloroethene | trans-1,2-<br>Dichloroethene | Tetrachloroethene | 1,1,1-<br>Trichloroethane | Trichloroethene | Vinyl Chloride | Arsenic | Cadmium | Chromium | Lead | Nitrate (as N) |
|------------------------|------------|-------------------------|---------------|------------|-------------------------|------------------------|------------------------|------------------------|----------------------------|------------------------------|-------------------|---------------------------|-----------------|----------------|---------|---------|----------|------|----------------|
| Water Quality Standard |            | 5                       | 140*          | 5.7*       | 600                     | 5                      | 810**                  | 7                      | 70                         | 100                          | 5                 | 200                       | 5               | 2              | 0.05    | 0.005   | 0.1      | 0.05 | 10             |
| PZ10                   | 07/27/1995 | <12.5                   | 150           | <12.5      | NA                      | <12.5                  | 97                     | 73                     | 760                        | <12.5                        | 130               | <12.5                     | 130             | 1300           | NA      | NA      | NA       | NA   | NA             |
| PZ10                   | 11/21/1995 | <10                     | 220           | <10        | 950                     | <10                    | 69                     | <10                    | 59                         | <10                          | 300               | 50                        | 65              | 270            | NA      | NA      | NA       | NA   | NA             |
| PZ10                   | 02/13/1996 | <25                     | 360           | <25        | 240                     | <25                    | 30                     | <25                    | 30                         | <25                          | 94                | <25                       | 120             | <25            | NA      | NA      | NA       | NA   | NA             |
| PZ10                   | 05/13/1996 | <2.5                    | 180           | <2.5       | <2.5                    | <2.5                   | 6                      | <2.5                   | <2.5                       | <2.5                         | 4                 | <2.5                      | <2.5            | 28             | NA      | NA      | NA       | NA   | NA             |
| PZ10                   | 07/22/1996 | <5                      | 90            | <5         | 61                      | <5                     | 15                     | 8.9                    | 17                         | 0.8                          | 43                | <5                        | 20              | 40             | NA      | NA      | NA       | NA   | NA             |
| PZ10                   | 11/15/1996 | <0.5                    | 54            | <0.5       | 28                      | <0.5                   | 2.9                    | 0.7                    | 1.9                        | <0.5                         | 5.5               | <0.5                      | 6.8             | 48             | NA      | NA      | NA       | NA   | NA             |
| PZ10                   | 12/13/1996 | NA                      | NA            | NA         | NA                      | NA                     | NA                     | <0.5                   | NA                         | NA                           | <0.5              | NA                        | 1.4             | NA             | NA      | NA      | NA       | NA   | NA             |
| PZ10                   | 05/02/1997 | <2.5                    | 32            | <2.5       | 21                      | <2.5                   | 2.8                    | 9.8                    | 20                         | <2.5                         | 16                | <2.5                      | 44              | 13             | NA      | NA      | NA       | NA   | NA             |
| PZ10                   | 08/11/1997 | <0.5                    | 15            | <0.5       | 13                      | <0.5                   | 1.9                    | 1.5                    | 11                         | <0.5                         | 5                 | <0.5                      | 13              | 12             | NA      | NA      | NA       | NA   | NA             |
| PZ10                   | 11/10/1997 | <0.5                    | 30            | <0.5       | 16                      | <0.5                   | 1.5                    | <0.5                   | 1.3                        | <0.5                         | 1.4               | <0.5                      | 1.7             | 3              | NA      | NA      | NA       | NA   | NA             |
| PZ10                   | 11/24/1997 | <1                      | 32            | <1         | 23                      | <1                     | 8.4                    | 27                     | 15                         | <1                           | 54                | 20                        | 64              | 13             | NA      | NA      | NA       | NA   | NA             |

Notes:

- \* - ADEQ Heath Based Guidance Levels
- \*\* - EPA Region 9 Preliminary Remediation Goals

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID  | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|----------|----------|-------------------|----------------|-----------------------|
| AZNGD-1  | 05/09/95 | 1236.4            | 19.95          | 1216.45               |
|          | 10/18/95 | 1236.4            | 19.8           | 1216.6                |
|          | 02/27/96 | 1236.4            | 19.78          | 1216.62               |
|          | 04/17/96 | 1236.4            | 20.58          | 1215.82               |
|          | 10/15/96 | 1236.4            | 21.6           | 1214.8                |
|          | 01/09/97 | 1236.4            | 31.34          | 1205.06               |
|          | 04/02/97 | 1236.4            | 23.82          | 1212.58               |
|          | 07/29/97 | 1236.4            | 24.76          | 1211.64               |
|          | 10/30/97 | 1236.4            | 22.45          | 1213.95               |
|          | 01/29/98 | 1236.4            | 19.92          | 1216.48               |
|          | 04/08/98 | 1236.4            | 18.03          | 1218.37               |
|          | 08/06/98 | 1236.4            | 18.78          | 1217.62               |
|          | 10/14/98 | 1236.4            | 19.32          | 1217.08               |
|          | 05/20/99 | 1236.4            | 21.78          | 1214.62               |
|          | 07/23/99 | 1236.4            | 21.14          | 1215.26               |
|          | 12/07/99 | 1236.4            | 23.68          | 1212.72               |
|          | 12/07/99 | 1236.4            | 23.68          | 1212.72               |
|          | 02/09/00 | 1236.4            | 25.06          | 1211.34               |
|          | 04/06/00 | 1236.4            | 24.21          | 1212.19               |
|          | 07/15/00 | 1236.4            | 25.42          | 1210.98               |
|          | 10/10/00 | 1236.4            | 24.58          | 1211.82               |
|          | 10/25/00 | 1236.4            | 24.75          | 1211.65               |
| AZNGD-2A | 05/09/95 | 1233.1            | 12.03          | 1221.07               |
|          | 10/18/95 | 1233.1            | 12             | 1221.1                |
|          | 02/27/96 | 1233.1            | 10.32          | 1222.78               |
|          | 04/17/96 | 1233.1            | 11.53          | 1221.57               |
|          | 07/23/96 | 1233.1            | 11.59          | 1221.51               |
|          | 04/02/97 | 1233.1            | 16.8           | 1216.3                |
|          | 07/29/97 | 1233.1            | 16.15          | 1216.95               |
|          | 10/30/97 | 1233.1            | 14.64          | 1218.46               |
|          | 01/30/98 | 1233.1            | 11.31          | 1221.79               |
|          | 04/13/98 | 1233.1            | 6.89           | 1226.21               |
|          | 08/14/98 | 1233.1            | 7.57           | 1225.53               |
|          | 10/14/98 | 1233.1            | 7.23           | 1225.87               |
|          | 05/20/99 | 1233.1            | 10.99          | 1222.11               |
|          | 07/23/99 | 1233.1            | 14.34          | 1218.76               |
|          | 12/07/99 | 1233.1            | 14.63          | 1218.47               |
|          | 12/07/99 | 1233.1            | 14.63          | 1218.47               |
|          | 02/09/00 | 1233.1            | 16.45          | 1216.65               |
|          | 04/06/00 | 1233.1            | 14.98          | 1218.12               |
|          | 08/17/00 | 1233.1            | 16.29          | 1216.81               |
|          | 10/10/00 | 1233.1            | 15.95          | 1217.15               |
| AZNGD-2B | 05/09/95 | 1233.1            | 11.74          | 1221.36               |
|          | 10/18/95 | 1233.1            | 11.72          | 1221.38               |
|          | 02/27/96 | 1233.1            | 10             | 1223.1                |
|          | 04/17/96 | 1233.1            | 11.24          | 1221.86               |
|          | 07/23/96 | 1233.1            | 11.29          | 1221.81               |
|          | 04/02/97 | 1233.1            | 16.45          | 1216.65               |
|          | 07/29/97 | 1233.1            | 15.75          | 1217.35               |
|          | 10/30/97 | 1233.1            | 14.53          | 1218.57               |
|          | 01/30/98 | 1233.1            | 11.66          | 1221.44               |
|          | 04/13/98 | 1233.1            | 7.22           | 1225.88               |
|          | 08/14/98 | 1233.1            | 7.87           | 1225.23               |
|          | 10/14/98 | 1233.1            | 7.61           | 1225.49               |
|          | 05/20/99 | 1233.1            | 11.27          | 1221.83               |
|          | 07/23/99 | 1233.1            | 12.84          | 1220.26               |
|          | 12/07/99 | 1233.1            | 14.59          | 1218.51               |
|          | 12/07/99 | 1233.1            | 14.59          | 1218.51               |
|          | 02/09/00 | 1233.1            | 16.6           | 1216.5                |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| AZNGD-2B  | 04/06/00 | 1233.1            | 15.21          | 1217.89               |
|           | 08/17/00 | 1233.1            | 15.62          | 1217.48               |
|           | 10/10/00 | 1233.1            | 15.95          | 1217.15               |
| DM101-025 | 04/12/95 | 1222.31           | 24.34          | 1197.97               |
|           | 08/04/97 | 1222.31           | -999           | Dry                   |
|           | 10/08/97 | 1222.31           | -999           | Dry                   |
| DM101-045 | 04/12/95 | 1222.31           | 24.24          | 1198.07               |
|           | 10/24/95 | 1222.31           | 26.99          | 1195.32               |
|           | 11/21/95 | 1222.31           | 26.41          | 1195.9                |
|           | 04/04/97 | 1222.31           | 27.97          | 1194.34               |
|           | 08/04/97 | 1222.31           | 30.81          | 1191.5                |
|           | 10/08/97 | 1222.31           | 28.17          | 1194.14               |
|           | 11/25/97 | 1222.31           | 28.36          | 1193.95               |
| DM101-055 | 04/12/95 | 1222.31           | 24.13          | 1198.18               |
|           | 10/24/95 | 1222.31           | 27.01          | 1195.3                |
|           | 11/21/95 | 1222.31           | 26.47          | 1195.84               |
|           | 04/04/97 | 1222.31           | 27.94          | 1194.37               |
|           | 08/04/97 | 1222.31           | 30.74          | 1191.57               |
|           | 10/08/97 | 1222.31           | 28.12          | 1194.19               |
|           | 11/25/97 | 1222.31           | 28.33          | 1193.98               |
| DM101-070 | 04/12/95 | 1222.31           | 24.01          | 1198.3                |
|           | 10/24/95 | 1222.31           | 26.79          | 1195.52               |
|           | 11/21/95 | 1222.31           | 26.42          | 1195.89               |
|           | 04/04/97 | 1222.31           | 27.7           | 1194.61               |
|           | 08/04/97 | 1222.31           | 30.8           | 1191.51               |
|           | 10/08/97 | 1222.31           | 28.2           | 1194.11               |
|           | 11/25/97 | 1222.31           | 28.25          | 1194.06               |
| DM101-094 | 04/12/95 | 1222.31           | 23.84          | 1198.47               |
|           | 10/24/95 | 1222.31           | 26.51          | 1195.8                |
|           | 11/21/95 | 1222.31           | 26.38          | 1195.93               |
|           | 04/04/97 | 1222.31           | 27.65          | 1194.66               |
|           | 08/04/97 | 1222.31           | 30.85          | 1191.46               |
|           | 10/08/97 | 1222.31           | 28.15          | 1194.16               |
|           | 11/25/97 | 1222.31           | 28.25          | 1194.06               |
| DM101-102 | 08/04/97 | 1222.31           | 30.74          | 1191.57               |
|           | 10/08/97 | 1222.31           | 28.11          | 1194.2                |
|           | 11/25/97 | 1222.31           | 28.17          | 1194.14               |
| DM101-114 | 04/12/95 | 1222.31           | 23.7           | 1198.61               |
|           | 10/24/95 | 1222.31           | 26.27          | 1196.04               |
|           | 11/21/95 | 1222.31           | 26.2           | 1196.11               |
|           | 04/04/97 | 1222.31           | 27.41          | 1194.9                |
|           | 08/04/97 | 1222.31           | 30.61          | 1191.7                |
|           | 10/08/97 | 1222.31           | 28.1           | 1194.21               |
|           | 11/25/97 | 1222.31           | 28.06          | 1194.25               |
| DM101-130 | 04/12/95 | 1222.31           | 23.53          | 1198.78               |
|           | 10/24/95 | 1222.31           | 26.08          | 1196.23               |
|           | 11/21/95 | 1222.31           | 26.09          | 1196.22               |
|           | 04/04/97 | 1222.31           | 27.17          | 1195.14               |
|           | 08/04/97 | 1222.31           | 30.59          | 1191.72               |
|           | 10/08/97 | 1222.31           | 28.1           | 1194.21               |
|           | 11/25/97 | 1222.31           | 27.99          | 1194.32               |
| DM101-140 | 04/12/95 | 1222.31           | 23.44          | 1198.87               |
|           | 10/24/95 | 1222.31           | 25.73          | 1196.58               |
|           | 11/21/95 | 1222.31           | 25.97          | 1196.34               |
|           | 04/04/97 | 1222.31           | 26.78          | 1195.53               |
|           | 08/04/97 | 1222.31           | 28.85          | 1193.46               |
|           | 10/08/97 | 1222.31           | 28.05          | 1194.26               |
|           | 11/25/97 | 1222.31           | 27.88          | 1194.43               |
| DM101-B   | 04/06/95 | 1222.31           | 24.3           | 1198.01               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM101-B   | 07/12/95 | 1222.31           | 24.3           | 1198.01               |
|           | 10/17/95 | 1222.31           | 24.31          | 1198                  |
|           | 12/27/95 | 1222.31           | 25.51          | 1196.8                |
|           | 03/22/96 | 1222.31           | 43.15          | 1179.16               |
|           | 04/18/96 | 1222.31           | 22.69          | 1199.62               |
| DM102-026 | 04/06/95 | 1214.27           | 25.93          | 1188.34               |
| DM102-048 | 04/06/95 | 1214.27           | 36.24          | 1178.03               |
| DM102-065 | 04/06/95 | 1214.27           | 36.34          | 1177.93               |
| DM102-082 | 04/06/95 | 1214.27           | 36.33          | 1177.94               |
| DM102-104 | 04/06/95 | 1214.27           | 36.3           | 1177.97               |
| DM102-119 | 04/06/95 | 1214.27           | 36.27          | 1178                  |
| DM102-144 | 04/06/95 | 1214.27           | 36.23          | 1178.04               |
| DM102-159 | 04/06/95 | 1214.27           | 36.16          | 1178.11               |
| DM102-186 | 04/06/95 | 1214.27           | 36.11          | 1178.16               |
| DM102-191 | 04/06/95 | 1214.27           | 36.11          | 1178.16               |
| DM102-213 | 04/06/95 | 1214.27           | 36.05          | 1178.22               |
| DM102-233 | 04/06/95 | 1214.27           | 36.02          | 1178.25               |
| DM102-253 | 04/06/95 | 1214.27           | 35.96          | 1178.31               |
| DM102-273 | 04/06/95 | 1214.27           | 35.98          | 1178.29               |
| DM102-299 | 04/06/95 | 1214.27           | 35.99          | 1178.28               |
| DM102-319 | 04/06/95 | 1214.27           | 35.9           | 1178.37               |
| DM102-344 | 04/06/95 | 1214.27           | 35.83          | 1178.44               |
| DM102-354 | 04/06/95 | 1214.27           | 35.86          | 1178.41               |
| DM102-377 | 04/06/95 | 1214.27           | 35.9           | 1178.37               |
| DM102-389 | 04/06/95 | 1214.27           | 35.83          | 1178.44               |
| DM102-404 | 04/06/95 | 1214.27           | 35.78          | 1178.49               |
| DM102-427 | 04/06/95 | 1214.27           | 35.74          | 1178.53               |
| DM102-454 | 04/06/95 | 1214.27           | 35.75          | 1178.52               |
| DM102-469 | 04/06/95 | 1214.27           | 35.65          | 1178.62               |
| DM102-489 | 04/06/95 | 1214.27           | 35.43          | 1178.84               |
| DM107     | 01/10/95 | 1198.32           | 24.4           | 1173.92               |
|           | 02/27/95 | 1198.32           | 19.07          | 1179.25               |
|           | 03/14/95 | 1198.32           | 19.11          | 1179.21               |
|           | 04/06/95 | 1198.32           | 23.14          | 1175.18               |
|           | 04/26/95 | 1198.32           | 20.1           | 1178.22               |
|           | 05/25/95 | 1198.32           | 23.25          | 1175.07               |
|           | 06/09/95 | 1198.32           | 23.2           | 1175.12               |
|           | 07/07/95 | 1198.32           | 23.26          | 1175.06               |
|           | 08/29/95 | 1198.32           | 23.24          | 1175.08               |
|           | 09/13/95 | 1198.32           | 23.3           | 1175.02               |
|           | 10/16/95 | 1198.32           | 23.85          | 1174.47               |
|           | 10/31/95 | 1198.32           | 23.36          | 1174.96               |
|           | 12/21/95 | 1198.32           | 23.49          | 1174.83               |
|           | 01/19/96 | 1198.32           | 23.84          | 1174.48               |
|           | 02/27/96 | 1198.32           | 24.29          | 1174.03               |
|           | 03/19/96 | 1198.32           | 23.7           | 1174.62               |
|           | 04/02/96 | 1198.32           | 23.75          | 1174.57               |
|           | 05/31/96 | 1198.32           | 25.77          | 1172.55               |
|           | 06/18/96 | 1198.32           | 22.91          | 1175.41               |
|           | 07/01/96 | 1198.32           | 35.36          | 1162.96               |
|           | 08/09/96 | 1198.32           | 28.32          | 1170                  |
|           | 09/27/96 | 1198.32           | 28.3           | 1170.02               |
|           | 10/07/96 | 1198.32           | 28.3           | 1170.02               |
|           | 11/21/96 | 1198.32           | -999           | Dry                   |
|           | 12/16/96 | 1198.32           | -999           | Dry                   |
|           | 01/09/97 | 1198.32           | -999           | Dry                   |
|           | 02/17/97 | 1198.32           | -999           | Dry                   |
|           | 03/20/97 | 1198.32           | -999           | Dry                   |
|           | 04/02/97 | 1198.32           | 19.6           | 1178.72               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM107   | 04/18/97 | 1198.32           | 19.73          | 1178.59               |
|         | 04/21/97 | 1198.32           | 19.76          | 1178.56               |
|         | 06/30/97 | 1198.32           | 20.84          | 1177.48               |
|         | 07/25/97 | 1198.32           | 21.84          | 1176.48               |
|         | 08/25/97 | 1198.32           | 20.13          | 1178.19               |
|         | 09/30/97 | 1198.32           | 19.75          | 1178.57               |
|         | 10/16/97 | 1198.32           | 19.78          | 1178.54               |
|         | 10/28/97 | 1198.32           | 20.11          | 1178.21               |
|         | 11/26/97 | 1198.32           | 21.45          | 1176.87               |
|         | 01/28/98 | 1198.32           | 20.52          | 1177.8                |
|         | 04/10/98 | 1198.32           | 16.94          | 1181.38               |
|         | 07/28/98 | 1198.32           | 20.06          | 1178.26               |
|         | 10/12/98 | 1198.32           | 19.34          | 1178.98               |
|         | 04/12/99 | 1198.32           | 23.28          | 1175.04               |
|         | 07/16/99 | 1198.32           | 24.43          | 1173.89               |
|         | 10/11/99 | 1198.32           | 22.7           | 1175.62               |
|         | 02/08/00 | 1198.32           | 23.37          | 1174.95               |
|         | 04/06/00 | 1198.32           | 23.45          | 1174.87               |
|         | 08/09/00 | 1198.32           | 21.07          | 1177.25               |
|         | 10/09/00 | 1198.32           | 22.8           | 1175.52               |
| DM111   | 01/10/95 | 1200.15           | 21.05          | 1179.1                |
|         | 01/27/95 | 1200.15           | 21.48          | 1178.67               |
|         | 02/28/95 | 1200.15           | 21.88          | 1178.27               |
|         | 03/27/95 | 1200.15           | 22.05          | 1178.1                |
|         | 04/06/95 | 1200.15           | 22.05          | 1178.1                |
|         | 05/10/95 | 1200.15           | 22.2           | 1177.95               |
|         | 06/15/95 | 1200.15           | 22.18          | 1177.97               |
|         | 07/11/95 | 1200.15           | 22.2           | 1177.95               |
|         | 08/29/95 | 1200.15           | 22.19          | 1177.96               |
|         | 09/28/95 | 1200.15           | 21.95          | 1178.2                |
|         | 10/17/95 | 1200.15           | 22.23          | 1177.92               |
|         | 11/07/95 | 1200.15           | 21.96          | 1178.19               |
|         | 12/27/95 | 1200.15           | 22.33          | 1177.82               |
|         | 01/12/96 | 1200.15           | 21.98          | 1178.17               |
|         | 07/03/96 | 1200.15           | -999           | Dry                   |
|         | 08/14/96 | 1200.15           | -999           | Dry                   |
|         | 09/27/96 | 1200.15           | -999           | Dry                   |
|         | 10/09/96 | 1200.15           | -999           | Dry                   |
|         | 11/04/96 | 1200.15           | -999           | Dry                   |
|         | 12/16/96 | 1200.15           | -999           | Dry                   |
|         | 01/09/97 | 1200.15           | -999           | Dry                   |
|         | 02/17/97 | 1200.15           | -999           | Dry                   |
|         | 03/20/97 | 1200.15           | -999           | Dry                   |
|         | 04/02/97 | 1200.15           | -999           | Dry                   |
|         | 05/28/97 | 1200.15           | -999           | Dry                   |
|         | 06/30/97 | 1200.15           | -999           | Dry                   |
|         | 07/25/97 | 1200.15           | -999           | Dry                   |
|         | 08/25/97 | 1200.15           | -999           | Dry                   |
|         | 09/30/97 | 1200.15           | -999           | Dry                   |
|         | 10/15/97 | 1200.15           | -999           | Dry                   |
|         | 11/26/97 | 1200.15           | -999           | Dry                   |
|         | 12/30/97 | 1200.15           | -999           | Dry                   |
|         | 01/27/98 | 1200.15           | -999           | Dry                   |
|         | 04/08/98 | 1200.15           | 21.13          | 1179.02               |
|         | 08/06/98 | 1200.15           | 21.2           | 1178.95               |
|         | 10/09/98 | 1200.15           | 21.14          | 1179.01               |
|         | 04/08/99 | 1200.15           | 22.11          | 1178.04               |
|         | 07/08/99 | 1200.15           | 22.42          | 1177.73               |
|         | 10/11/99 | 1200.15           | 21.2           | 1178.95               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM111   | 02/07/00 | 1200.15           | 21.1           | 1179.05               |
|         | 04/05/00 | 1200.15           | 21.88          | 1178.27               |
|         | 10/07/00 | 1200.15           | 20.73          | 1179.42               |
| DM112   | 03/14/95 | 1194.23           | 21.75          | 1172.48               |
|         | 04/06/95 | 1194.23           | 20.89          | 1173.34               |
|         | 05/30/96 | 1194.23           | 19.73          | 1174.5                |
|         | 07/03/96 | 1194.23           | -999           | Dry                   |
|         | 08/14/96 | 1194.23           | -999           | Dry                   |
|         | 09/27/96 | 1194.23           | -999           | Dry                   |
|         | 10/09/96 | 1194.23           | -999           | Dry                   |
|         | 11/04/96 | 1194.23           | -999           | Dry                   |
|         | 01/09/97 | 1194.23           | -999           | Dry                   |
|         | 02/17/97 | 1194.23           | -999           | Dry                   |
|         | 03/20/97 | 1194.23           | -999           | Dry                   |
|         | 04/02/97 | 1194.23           | -999           | Dry                   |
|         | 06/30/97 | 1194.23           | -999           | Dry                   |
|         | 07/25/97 | 1194.23           | -999           | Dry                   |
|         | 08/25/97 | 1194.23           | -999           | Dry                   |
|         | 09/30/97 | 1194.23           | -999           | Dry                   |
|         | 10/15/97 | 1194.23           | -999           | Dry                   |
|         | 11/26/97 | 1194.23           | 20.61          | 1173.62               |
|         | 12/30/97 | 1194.23           | -999           | Dry                   |
|         | 01/27/98 | 1194.23           | -999           | Dry                   |
|         | 04/08/98 | 1194.23           | -999           | Dry                   |
|         | 08/06/98 | 1194.23           | -999           | Dry                   |
|         | 10/09/98 | 1194.23           | -999           | Dry                   |
|         | 07/14/99 | 1194.23           | -999           | Dry                   |
|         | 10/11/99 | 1194.23           | -999           | Dry                   |
|         | 10/07/00 | 1194.23           | 20.32          | 1173.91               |
| DM114   | 04/06/95 | 1216.03           | 37.61          | 1178.42               |
|         | 04/26/95 | 1216.03           | 37             | 1179.03               |
|         | 07/12/95 | 1216.03           | 37.65          | 1178.38               |
|         | 10/17/95 | 1216.03           | 37.65          | 1178.38               |
|         | 11/02/95 | 1216.03           | 38.82          | 1177.21               |
|         | 01/19/96 | 1216.03           | 39.8           | 1176.23               |
|         | 04/11/96 | 1216.03           | 39.69          | 1176.34               |
|         | 05/01/96 | 1216.03           | 39.46          | 1176.57               |
|         | 07/03/96 | 1216.03           | 39.31          | 1176.72               |
|         | 10/03/96 | 1216.03           | 39.33          | 1176.7                |
|         | 11/04/96 | 1216.03           | 40.97          | 1175.06               |
|         | 01/09/97 | 1216.03           | -999           | Dry                   |
|         | 04/02/97 | 1216.03           | 40.37          | 1175.66               |
|         | 04/21/97 | 1216.03           | 41.18          | 1174.85               |
|         | 10/15/97 | 1216.07           | 42.23          | 1173.84               |
|         | 10/21/97 | 1216.07           | 42.31          | 1173.76               |
|         | 01/27/98 | 1216.07           | 41.94          | 1174.13               |
|         | 04/08/98 | 1216.07           | 41.9           | 1174.17               |
|         | 07/29/98 | 1216.07           | 43.47          | 1172.6                |
|         | 10/09/98 | 1216.07           | 42.31          | 1173.76               |
|         | 04/09/99 | 1216.07           | 43.18          | 1172.89               |
|         | 07/16/99 | 1216.07           | 44.64          | 1171.43               |
|         | 10/12/99 | 1216.07           | 45.15          | 1170.92               |
|         | 02/07/00 | 1216.07           | 46.72          | 1169.35               |
|         | 04/06/00 | 1216.07           | 45.89          | 1170.18               |
|         | 08/04/00 | 1216.07           | 46.98          | 1169.09               |
|         | 10/09/00 | 1216.07           | 46.75          | 1169.32               |
| DM115   | 03/14/95 | 1188.46           | 50.3           | 1138.16               |
|         | 07/03/96 | 1188.46           | -999           | Dry                   |
|         | 08/14/96 | 1188.46           | -999           | Dry                   |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM115   | 09/27/96 | 1188.46           | -999           | Dry                   |
|         | 10/09/96 | 1188.46           | -999           | Dry                   |
|         | 11/04/96 | 1188.46           | -999           | Dry                   |
|         | 12/16/96 | 1188.46           | -999           | Dry                   |
|         | 01/15/97 | 1188.46           | -999           | Dry                   |
|         | 02/17/97 | 1188.46           | -999           | Dry                   |
|         | 03/20/97 | 1188.46           | -999           | Dry                   |
|         | 04/02/97 | 1188.46           | -999           | Dry                   |
|         | 04/24/97 | 1188.46           | -999           | Dry                   |
|         | 05/28/97 | 1188.46           | -999           | Dry                   |
|         | 06/30/97 | 1188.46           | -999           | Dry                   |
|         | 07/25/97 | 1188.46           | -999           | Dry                   |
|         | 08/25/97 | 1188.46           | -999           | Dry                   |
|         | 09/30/97 | 1188.46           | -999           | Dry                   |
|         | 10/15/97 | 1188.46           | -999           | Dry                   |
|         | 11/26/97 | 1188.46           | -999           | Dry                   |
|         | 12/30/97 | 1188.46           | -999           | Dry                   |
|         | 01/27/98 | 1188.46           | -999           | Dry                   |
|         | 04/08/98 | 1188.46           | -999           | Dry                   |
|         | 08/06/98 | 1188.46           | -999           | Dry                   |
|         | 10/09/98 | 1188.46           | -999           | Dry                   |
|         | 07/14/99 | 1188.46           | -999           | Dry                   |
|         | 10/11/99 | 1188.46           | -999           | Dry                   |
| DM117   | 01/10/95 | 1201.76           | 24.62          | 1177.14               |
|         | 01/27/95 | 1201.76           | 25.02          | 1176.74               |
|         | 02/28/95 | 1201.76           | 25             | 1176.76               |
|         | 03/27/95 | 1201.76           | 25             | 1176.76               |
|         | 04/06/95 | 1201.76           | 25             | 1176.76               |
|         | 05/10/95 | 1201.76           | 25.36          | 1176.4                |
|         | 06/16/95 | 1201.76           | 25.56          | 1176.2                |
|         | 07/11/95 | 1201.76           | 25.57          | 1176.19               |
|         | 07/26/95 | 1201.76           | 25.8           | 1175.96               |
|         | 08/29/95 | 1201.76           | 25.57          | 1176.19               |
|         | 09/28/95 | 1201.76           | 25.55          | 1176.21               |
|         | 10/17/95 | 1201.76           | 25.56          | 1176.2                |
|         | 11/07/95 | 1201.76           | 26.06          | 1175.7                |
|         | 12/27/95 | 1201.76           | 26.69          | 1175.07               |
|         | 01/12/96 | 1201.76           | 26.05          | 1175.71               |
|         | 01/19/96 | 1201.76           | 26.7           | 1175.06               |
|         | 02/09/96 | 1201.76           | 26.9           | 1174.86               |
|         | 02/23/96 | 1201.76           | 26.9           | 1174.86               |
|         | 03/22/96 | 1201.76           | 26.73          | 1175.03               |
|         | 04/08/96 | 1201.76           | 27.04          | 1174.72               |
|         | 05/02/96 | 1201.76           | 26.8           | 1174.96               |
|         | 06/18/96 | 1201.76           | 26.75          | 1175.01               |
|         | 07/03/96 | 1201.76           | 26.87          | 1174.89               |
|         | 07/15/96 | 1201.76           | 27.1           | 1174.66               |
|         | 08/14/96 | 1201.76           | 26.92          | 1174.84               |
|         | 09/27/96 | 1201.76           | 26.91          | 1174.85               |
|         | 10/09/96 | 1201.76           | 26.91          | 1174.85               |
|         | 11/04/96 | 1201.76           | 27.4           | 1174.36               |
|         | 12/16/96 | 1201.76           | 27.55          | 1174.21               |
|         | 01/09/97 | 1201.76           | 26.89          | 1174.87               |
|         | 01/15/97 | 1201.76           | 27.57          | 1174.19               |
|         | 02/17/97 | 1201.8            | 27.95          | 1173.85               |
|         | 03/20/97 | 1201.8            | 27.95          | 1173.85               |
|         | 04/02/97 | 1201.76           | 28.22          | 1173.54               |
|         | 04/24/97 | 1201.76           | 27.8           | 1173.96               |
|         | 05/28/97 | 1201.8            | 27.62          | 1174.18               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
 FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM117     | 06/30/97 | 1201.8            | 27.41          | 1174.39               |
|           | 07/25/97 | 1201.8            | 28.34          | 1173.46               |
|           | 08/11/97 | 1201.8            | 28.1           | 1173.7                |
|           | 08/25/97 | 1201.8            | 27.71          | 1174.09               |
|           | 09/30/97 | 1201.8            | 27.98          | 1173.82               |
|           | 10/09/97 | 1201.8            | 28.3           | 1173.5                |
|           | 10/29/97 | 1201.8            | 28.48          | 1173.32               |
|           | 11/26/97 | 1201.8            | 28.9           | 1172.9                |
|           | 12/30/97 | 1201.8            | 29             | 1172.8                |
|           | 01/27/98 | 1201.8            | 29.2           | 1172.6                |
|           | 04/08/98 | 1201.8            | 28.79          | 1173.01               |
|           | 08/06/98 | 1201.8            | 29.15          | 1172.65               |
|           | 10/09/98 | 1201.8            | 28.83          | 1172.97               |
|           | 04/08/99 | 1201.8            | 29.96          | 1171.84               |
|           | 07/08/99 | 1201.8            | 30.34          | 1171.46               |
|           | 10/11/99 | 1201.8            | 30.22          | 1171.58               |
|           | 02/07/00 | 1201.8            | 31.91          | 1169.89               |
|           | 04/05/00 | 1201.8            | 31.59          | 1170.21               |
|           | 07/15/00 | 1201.8            | 31.65          | 1170.15               |
|           | 10/07/00 | 1201.8            | 31.11          | 1170.69               |
| DM118     | 04/06/95 | 1177.2            | 39.86          | 1137.34               |
|           | 05/01/95 | 1177.2            | 41.35          | 1135.85               |
|           | 07/12/95 | 1177.2            | 41.65          | 1135.55               |
|           | 10/17/95 | 1177.2            | 39.9           | 1137.3                |
|           | 01/19/96 | 1177.2            | 42.21          | 1134.99               |
|           | 04/11/96 | 1177.2            | 42.31          | 1134.89               |
|           | 07/03/96 | 1177.2            | 41.9           | 1135.3                |
|           | 10/03/96 | 1177.2            | 41.89          | 1135.31               |
|           | 10/17/96 | 1177.2            | 44.4           | 1132.8                |
|           | 01/09/97 | 1177.23           | 41.91          | 1135.32               |
|           | 04/02/97 | 1177.2            | 45.18          | 1132.02               |
|           | 07/24/97 | 1177.23           | 45.83          | 1131.4                |
|           | 10/06/97 | 1177.23           | 46.26          | 1130.97               |
|           | 10/20/97 | 1177.23           | 48.02          | 1129.21               |
|           | 01/27/98 | 1177.23           | 46.37          | 1130.86               |
|           | 04/08/98 | 1177.23           | 46.68          | 1130.55               |
|           | 08/06/98 | 1177.23           | 46.91          | 1130.32               |
|           | 10/09/98 | 1177.23           | 46.68          | 1130.55               |
|           | 04/08/99 | 1177.23           | 47.39          | 1129.84               |
|           | 07/15/99 | 1177.23           | 47.92          | 1129.31               |
|           | 10/11/99 | 1177.23           | 48.24          | 1128.99               |
|           | 12/21/99 | 1177.23           | 48.9           | 1128.33               |
|           | 02/08/00 | 1177.23           | 49.05          | 1128.18               |
|           | 07/15/00 | 1177.23           | 49.97          | 1127.26               |
|           | 10/11/00 | 1177.23           | 50.5           | 1126.73               |
| DM119-072 | 01/11/95 | 1170.42           | 46.54          | 1123.88               |
|           | 03/16/95 | 1170.42           | 46.97          | 1123.45               |
|           | 04/05/95 | 1170.42           | 47.24          | 1123.18               |
|           | 04/12/95 | 1170.42           | 47.3           | 1123.12               |
|           | 08/08/95 | 1170.42           | 52.55          | 1117.87               |
|           | 10/24/95 | 1170.42           | 48.2           | 1122.22               |
|           | 01/25/96 | 1170.42           | 47.82          | 1122.6                |
|           | 04/18/96 | 1170.42           | 48.54          | 1121.88               |
|           | 07/05/96 | 1170.42           | 48.69          | 1121.73               |
|           | 10/11/96 | 1170.42           | 48.79          | 1121.63               |
|           | 11/18/96 | 1170.42           | 49.42          | 1121                  |
|           | 01/15/97 | 1170.42           | 50.14          | 1120.28               |
|           | 04/04/97 | 1170.42           | 50.81          | 1119.61               |
|           | 08/05/97 | 1170.42           | 41.68          | 1128.74               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM119-072 | 10/10/97 | 1170.42           | 51.88          | 1118.54               |
|           | 11/11/97 | 1170.42           | 51.93          | 1118.49               |
|           | 01/28/98 | 1170.42           | 56.15          | 1114.27               |
|           | 04/17/98 | 1170.42           | 56.62          | 1113.8                |
|           | 08/06/98 | 1170.42           | 52.72          | 1117.7                |
|           | 10/20/98 | 1170.42           | 50.53          | 1119.89               |
|           | 04/08/99 | 1170.42           | 53.24          | 1117.18               |
|           | 07/08/99 | 1170.42           | 53.76          | 1116.66               |
|           | 11/11/99 | 1170.42           | 54.19          | 1116.23               |
|           | 02/15/00 | 1170.42           | 54.65          | 1115.77               |
|           | 04/08/00 | 1170.42           | 54.99          | 1115.43               |
|           | 08/04/00 | 1170.42           | 55.83          | 1114.59               |
| DM119-079 | 01/15/97 | 1170.42           | 42.52          | 1127.9                |
|           | 04/04/97 | 1170.42           | 42.34          | 1128.08               |
|           | 08/05/97 | 1170.42           | 45.32          | 1125.1                |
|           | 10/10/97 | 1170.42           | 42.81          | 1127.61               |
|           | 11/11/97 | 1170.42           | 42.76          | 1127.66               |
|           | 01/28/98 | 1170.42           | 43.68          | 1126.74               |
|           | 04/17/98 | 1170.42           | 43.99          | 1126.43               |
|           | 08/06/98 | 1170.42           | 43.99          | 1126.43               |
|           | 10/20/98 | 1170.42           | 44.42          | 1126                  |
|           | 04/08/99 | 1170.42           | 45.4           | 1125.02               |
|           | 07/08/99 | 1170.42           | 45.61          | 1124.81               |
|           | 11/11/99 | 1170.42           | 45.86          | 1124.56               |
|           | 02/15/00 | 1170.42           | 46.54          | 1123.88               |
|           | 04/08/00 | 1170.42           | 46.51          | 1123.91               |
|           | 08/04/00 | 1170.42           | 46.74          | 1123.68               |
|           | 10/13/00 | 1170.42           | 47.69          | 1122.73               |
| DM119-098 | 01/11/95 | 1170.42           | 46.57          | 1123.85               |
|           | 03/16/95 | 1170.42           | 46.92          | 1123.5                |
|           | 04/05/95 | 1170.42           | 47.16          | 1123.26               |
|           | 04/12/95 | 1170.42           | 47.14          | 1123.28               |
|           | 08/08/95 | 1170.42           | 43.09          | 1127.33               |
|           | 10/24/95 | 1170.42           | 48.52          | 1121.9                |
|           | 01/25/96 | 1170.42           | 47.73          | 1122.69               |
|           | 04/18/96 | 1170.42           | 48.54          | 1121.88               |
|           | 07/05/96 | 1170.42           | 48.53          | 1121.89               |
|           | 10/11/96 | 1170.42           | 48.62          | 1121.8                |
|           | 01/15/97 | 1170.42           | 50.23          | 1120.19               |
|           | 04/04/97 | 1170.42           | 50.8           | 1119.62               |
|           | 08/05/97 | 1170.42           | 46.95          | 1123.47               |
|           | 10/10/97 | 1170.42           | 51.82          | 1118.6                |
|           | 11/11/97 | 1170.42           | 51.94          | 1118.48               |
|           | 01/28/98 | 1170.42           | 51.53          | 1118.89               |
|           | 04/17/98 | 1170.42           | 53.73          | 1116.69               |
|           | 08/06/98 | 1170.42           | 52.72          | 1117.7                |
|           | 10/20/98 | 1170.42           | 52.34          | 1118.08               |
|           | 04/08/99 | 1170.42           | 53.19          | 1117.23               |
|           | 07/08/99 | 1170.42           | 53.7           | 1116.72               |
|           | 11/11/99 | 1170.42           | 54.1           | 1116.32               |
|           | 02/15/00 | 1170.42           | 54.62          | 1115.8                |
|           | 04/08/00 | 1170.42           | 55             | 1115.42               |
|           | 08/04/00 | 1170.42           | 55.74          | 1114.68               |
|           | 10/13/00 | 1170.42           | 56.25          | 1114.17               |
| DM119-105 | 01/15/97 | 1170.42           | 51.94          | 1118.48               |
|           | 04/04/97 | 1170.42           | 51.95          | 1118.47               |
|           | 08/05/97 | 1170.42           | 55.85          | 1114.57               |
|           | 10/10/97 | 1170.42           | 53.64          | 1116.78               |
|           | 11/11/97 | 1170.42           | 53.65          | 1116.77               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM119-105 | 01/28/98 | 1170.42           | 55.05          | 1115.37               |
|           | 04/17/98 | 1170.42           | 54             | 1116.42               |
|           | 08/06/98 | 1170.42           | 54.48          | 1115.94               |
|           | 10/20/98 | 1170.42           | 54.42          | 1116                  |
|           | 04/08/99 | 1170.42           | 52.81          | 1117.61               |
|           | 07/08/99 | 1170.42           | 51.88          | 1118.54               |
|           | 11/11/99 | 1170.42           | 52.39          | 1118.03               |
|           | 02/15/00 | 1170.42           | 53.22          | 1117.2                |
|           | 04/08/00 | 1170.42           | 53.83          | 1116.59               |
|           | 08/04/00 | 1170.42           | 54.9           | 1115.52               |
|           | 10/13/00 | 1170.42           | 55.33          | 1115.09               |
| DM119-137 | 01/11/95 | 1170.42           | 46.47          | 1123.95               |
|           | 03/16/95 | 1170.42           | 46.92          | 1123.5                |
|           | 04/05/95 | 1170.42           | 47.1           | 1123.32               |
|           | 04/12/95 | 1170.42           | 47.18          | 1123.24               |
|           | 08/08/95 | 1170.42           | 47.83          | 1122.59               |
|           | 10/24/95 | 1170.42           | 47.73          | 1122.69               |
|           | 01/25/96 | 1170.42           | 47.67          | 1122.75               |
|           | 04/18/96 | 1170.42           | 48.58          | 1121.84               |
|           | 07/05/96 | 1170.42           | 48.27          | 1122.15               |
|           | 10/11/96 | 1170.42           | 48.3           | 1122.12               |
|           | 01/15/97 | 1170.42           | 50.26          | 1120.16               |
|           | 04/04/97 | 1170.42           | 50.77          | 1119.65               |
|           | 08/05/97 | 1170.42           | 54.54          | 1115.88               |
|           | 10/10/97 | 1170.42           | 51.8           | 1118.62               |
|           | 11/11/97 | 1170.42           | 51.86          | 1118.56               |
|           | 01/28/98 | 1170.42           | 52.34          | 1118.08               |
|           | 04/17/98 | 1170.42           | 52.56          | 1117.86               |
|           | 08/06/98 | 1170.42           | 52.72          | 1117.7                |
|           | 10/20/98 | 1170.42           | 52.37          | 1118.05               |
|           | 04/08/99 | 1170.42           | 53.17          | 1117.25               |
|           | 07/08/99 | 1170.42           | 53.67          | 1116.75               |
|           | 11/11/99 | 1170.42           | 53.91          | 1116.51               |
|           | 02/15/00 | 1170.42           | 54.55          | 1115.87               |
|           | 04/08/00 | 1170.42           | 55.12          | 1115.3                |
|           | 08/04/00 | 1170.42           | 55.77          | 1114.65               |
| DM119-144 | 01/11/95 | 1170.42           | 46.03          | 1124.39               |
|           | 10/24/95 | 1170.42           | 46.57          | 1123.85               |
|           | 01/15/97 | 1170.42           | 49.81          | 1120.61               |
|           | 04/04/97 | 1170.42           | 50.35          | 1120.07               |
|           | 08/05/97 | 1170.42           | 52.96          | 1117.46               |
|           | 10/10/97 | 1170.42           | 51.36          | 1119.06               |
|           | 11/11/97 | 1170.42           | 51.46          | 1118.96               |
|           | 01/28/98 | 1170.42           | 51.91          | 1118.51               |
|           | 04/17/98 | 1170.42           | 52.18          | 1118.24               |
|           | 08/06/98 | 1170.42           | 52.3           | 1118.12               |
|           | 10/20/98 | 1170.42           | 51.96          | 1118.46               |
|           | 04/08/99 | 1170.42           | 52.73          | 1117.69               |
|           | 07/08/99 | 1170.42           | 53.01          | 1117.41               |
|           | 11/11/99 | 1170.42           | 53.6           | 1116.82               |
|           | 02/15/00 | 1170.42           | 54.18          | 1116.24               |
|           | 04/08/00 | 1170.42           | 54.52          | 1115.9                |
|           | 08/04/00 | 1170.42           | 55.24          | 1115.18               |
|           | 10/13/00 | 1170.42           | 55.76          | 1114.66               |
| DM119-179 | 01/15/97 | 1170.42           | 49.46          | 1120.96               |
|           | 04/04/97 | 1170.42           | 49.94          | 1120.48               |
|           | 08/05/97 | 1170.42           | 53.79          | 1116.63               |
|           | 10/10/97 | 1170.42           | 51.02          | 1119.4                |
|           | 11/11/97 | 1170.42           | 51.06          | 1119.36               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM119-179 | 01/28/98 | 1170.42           | 51.5           | 1118.92               |
|           | 04/17/98 | 1170.42           | 51.75          | 1118.67               |
|           | 08/06/98 | 1170.42           | 51.92          | 1118.5                |
|           | 10/20/98 | 1170.42           | 51.54          | 1118.88               |
|           | 04/08/99 | 1170.42           | 52.37          | 1118.05               |
|           | 07/08/99 | 1170.42           | 52.76          | 1117.66               |
|           | 11/11/99 | 1170.42           | 53.26          | 1117.16               |
|           | 02/15/00 | 1170.42           | 53.79          | 1116.63               |
|           | 04/08/00 | 1170.42           | 54.18          | 1116.24               |
|           | 08/04/00 | 1170.42           | 54.91          | 1115.51               |
|           | 10/13/00 | 1170.42           | 55.38          | 1115.04               |
| DM119-204 | 01/11/95 | 1170.42           | 45.13          | 1125.29               |
|           | 03/16/95 | 1170.42           | 45.43          | 1124.99               |
|           | 04/05/95 | 1170.42           | 45.61          | 1124.81               |
|           | 04/12/95 | 1170.42           | 46.05          | 1124.37               |
|           | 08/08/95 | 1170.42           | 46.48          | 1123.94               |
|           | 10/24/95 | 1170.42           | 45.7           | 1124.72               |
|           | 01/25/96 | 1170.42           | 46.49          | 1123.93               |
|           | 04/18/96 | 1170.42           | 47.26          | 1123.16               |
|           | 11/18/96 | 1170.42           | 49             | 1121.42               |
|           | 01/15/97 | 1170.42           | 48.95          | 1121.47               |
|           | 04/04/97 | 1170.42           | 49.51          | 1120.91               |
|           | 08/05/97 | 1170.42           | 41.57          | 1128.85               |
|           | 10/10/97 | 1170.42           | 50.22          | 1120.2                |
|           | 11/11/97 | 1170.42           | 50.27          | 1120.15               |
|           | 01/28/98 | 1170.42           | 50.31          | 1120.11               |
|           | 04/17/98 | 1170.42           | 50.43          | 1119.99               |
|           | 08/06/98 | 1170.42           | 50.41          | 1120.01               |
|           | 10/20/98 | 1170.42           | 50.15          | 1120.27               |
|           | 04/08/99 | 1170.42           | 51.21          | 1119.21               |
|           | 07/08/99 | 1170.42           | 51.57          | 1118.85               |
|           | 11/11/99 | 1170.42           | 52.13          | 1118.29               |
|           | 02/15/00 | 1170.42           | 52.65          | 1117.77               |
|           | 04/08/00 | 1170.42           | 52.88          | 1117.54               |
|           | 08/04/00 | 1170.42           | 53.38          | 1117.04               |
|           | 10/13/00 | 1170.42           | 53.81          | 1116.61               |
| DM119-229 | 01/15/97 | 1170.42           | 46.71          | 1123.71               |
|           | 04/04/97 | 1170.42           | 47.33          | 1123.09               |
|           | 08/05/97 | 1170.42           | 51.1           | 1119.32               |
|           | 10/10/97 | 1170.42           | 48.24          | 1122.18               |
|           | 11/11/97 | 1170.42           | 48.2           | 1122.22               |
|           | 01/28/98 | 1170.42           | 48.44          | 1121.98               |
|           | 04/17/98 | 1170.42           | 48.9           | 1121.52               |
|           | 08/06/98 | 1170.42           | 48.98          | 1121.44               |
|           | 10/20/98 | 1170.42           | 48.74          | 1121.68               |
|           | 04/08/99 | 1170.42           | 49.72          | 1120.7                |
|           | 07/08/99 | 1170.42           | 50.14          | 1120.28               |
|           | 11/11/99 | 1170.42           | 50.45          | 1119.97               |
|           | 02/15/00 | 1170.42           | 50.99          | 1119.43               |
|           | 04/08/00 | 1170.42           | 51.29          | 1119.13               |
|           | 08/04/00 | 1170.42           | 52.01          | 1118.41               |
|           | 10/13/00 | 1170.42           | 52.75          | 1117.67               |
| DM119-244 | 01/11/95 | 1170.42           | 50.31          | 1120.11               |
|           | 03/16/95 | 1170.42           | 42.96          | 1127.46               |
|           | 04/05/95 | 1170.42           | 42.95          | 1127.47               |
|           | 04/12/95 | 1170.42           | 43.14          | 1127.28               |
|           | 08/08/95 | 1170.42           | 44.03          | 1126.39               |
|           | 10/24/95 | 1170.42           | 43.56          | 1126.86               |
|           | 01/25/96 | 1170.42           | 43.92          | 1126.5                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM119-244 | 04/18/96 | 1170.42           | 45.13          | 1125.29               |
|           | 07/05/96 | 1170.42           | 45.17          | 1125.25               |
|           | 10/11/96 | 1170.42           | 45.2           | 1125.22               |
|           | 11/18/96 | 1170.42           | 46.96          | 1123.46               |
|           | 01/15/97 | 1170.42           | 46.54          | 1123.88               |
|           | 04/04/97 | 1170.42           | 47.26          | 1123.16               |
|           | 08/05/97 | 1170.42           | 50.94          | 1119.48               |
|           | 10/10/97 | 1170.42           | 70.68          | 1099.74               |
|           | 11/11/97 | 1170.42           | 48.07          | 1122.35               |
|           | 01/28/98 | 1170.42           | 48.27          | 1122.15               |
|           | 04/17/98 | 1170.42           | 48.68          | 1121.74               |
|           | 08/06/98 | 1170.42           | 48.74          | 1121.68               |
|           | 10/20/98 | 1170.42           | 48.5           | 1121.92               |
|           | 04/08/99 | 1170.42           | 49.52          | 1120.9                |
|           | 07/08/99 | 1170.42           | 49.86          | 1120.56               |
|           | 11/11/99 | 1170.42           | 50.21          | 1120.21               |
|           | 02/15/00 | 1170.42           | 50.77          | 1119.65               |
|           | 04/08/00 | 1170.42           | 51.05          | 1119.37               |
|           | 08/04/00 | 1170.42           | 51.89          | 1118.53               |
|           | 10/13/00 | 1170.42           | 52.41          | 1118.01               |
| DM119-269 | 01/15/97 | 1170.42           | 46.59          | 1123.83               |
|           | 04/04/97 | 1170.42           | 47.26          | 1123.16               |
|           | 08/05/97 | 1170.42           | 50.94          | 1119.48               |
|           | 10/10/97 | 1170.42           | 66.02          | 1104.4                |
|           | 11/11/97 | 1170.42           | 48.03          | 1122.39               |
|           | 01/28/98 | 1170.42           | 48.27          | 1122.15               |
|           | 04/17/98 | 1170.42           | 48.66          | 1121.76               |
|           | 08/06/98 | 1170.42           | 48.71          | 1121.71               |
|           | 10/20/98 | 1170.42           | 48.54          | 1121.88               |
|           | 04/08/99 | 1170.42           | 49.52          | 1120.9                |
|           | 07/08/99 | 1170.42           | 49.97          | 1120.45               |
|           | 11/11/99 | 1170.42           | 50.7           | 1119.72               |
|           | 02/15/00 | 1170.42           | 50.77          | 1119.65               |
|           | 04/08/00 | 1170.42           | 51.01          | 1119.41               |
|           | 08/04/00 | 1170.42           | 51.81          | 1118.61               |
|           | 10/13/00 | 1170.42           | 52.43          | 1117.99               |
| DM119-284 | 01/11/95 | 1170.42           | 42.3           | 1128.12               |
|           | 03/16/95 | 1170.42           | 43.01          | 1127.41               |
|           | 04/05/95 | 1170.42           | 42.98          | 1127.44               |
|           | 04/12/95 | 1170.42           | 43.06          | 1127.36               |
|           | 08/08/95 | 1170.42           | 44.06          | 1126.36               |
|           | 10/24/95 | 1170.42           | 43.37          | 1127.05               |
|           | 01/25/96 | 1170.42           | 43.9           | 1126.52               |
|           | 04/18/96 | 1170.42           | 45.16          | 1125.26               |
|           | 07/05/96 | 1170.42           | 45.2           | 1125.22               |
|           | 10/11/96 | 1170.42           | 45.32          | 1125.1                |
|           | 11/18/96 | 1170.42           | 47.01          | 1123.41               |
|           | 01/15/97 | 1170.42           | 46.49          | 1123.93               |
|           | 04/04/97 | 1170.42           | 47.21          | 1123.21               |
|           | 08/05/97 | 1170.42           | 50.95          | 1119.47               |
|           | 10/10/97 | 1170.42           | 66.3           | 1104.12               |
|           | 11/11/97 | 1170.42           | 48.02          | 1122.4                |
|           | 01/28/98 | 1170.42           | 48.25          | 1122.17               |
|           | 04/17/98 | 1170.42           | 48.63          | 1121.79               |
|           | 08/06/98 | 1170.42           | 48.77          | 1121.65               |
|           | 10/20/98 | 1170.42           | 48.53          | 1121.89               |
|           | 04/08/99 | 1170.42           | 49.53          | 1120.89               |
|           | 07/08/99 | 1170.42           | 50.12          | 1120.3                |
|           | 11/11/99 | 1170.42           | 50.24          | 1120.18               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM119-284 | 02/15/00 | 1170.42           | 50.77          | 1119.65               |
|           | 04/08/00 | 1170.42           | 51.04          | 1119.38               |
|           | 08/04/00 | 1170.42           | 51.82          | 1118.6                |
|           | 10/13/00 | 1170.42           | 52.23          | 1118.19               |
| DM120     | 04/06/95 | 1160.3            | 49.58          | 1110.72               |
|           | 04/28/95 | 1160.3            | 54.48          | 1105.82               |
|           | 07/12/95 | 1160.3            | 49.59          | 1110.71               |
|           | 10/16/95 | 1160.3            | 52.91          | 1107.39               |
|           | 10/31/95 | 1160.3            | 53             | 1107.3                |
|           | 01/19/96 | 1160.3            | 54.21          | 1106.09               |
|           | 04/11/96 | 1160.3            | 54.46          | 1105.84               |
|           | 05/01/96 | 1160.3            | 62.4           | 1097.9                |
|           | 07/01/96 | 1160.3            | 54.83          | 1105.47               |
|           | 10/03/96 | 1160.3            | 54.86          | 1105.44               |
|           | 10/25/96 | 1160.3            | 57.62          | 1102.68               |
|           | 01/09/97 | 1160.33           | 54.89          | 1105.44               |
|           | 04/02/97 | 1160.3            | 56.83          | 1103.47               |
|           | 04/29/97 | 1161.33           | 57.1           | 1104.23               |
|           | 07/24/97 | 1161.33           | 52.64          | 1108.69               |
|           | 10/06/97 | 1161.33           | 57.8           | 1103.53               |
|           | 10/23/97 | 1161.33           | 57.98          | 1103.35               |
|           | 01/27/98 | 1161.33           | 58.27          | 1103.06               |
|           | 04/14/98 | 1161.33           | 58.67          | 1102.66               |
|           | 08/06/98 | 1161.33           | 58.82          | 1102.51               |
|           | 10/09/98 | 1161.33           | 58.48          | 1102.85               |
|           | 11/08/98 | 1161.33           | 58.38          | 1102.95               |
|           | 04/08/99 | 1161.33           | 59.05          | 1102.28               |
|           | 10/19/99 | 1161.33           | 60.21          | 1101.12               |
|           | 12/21/99 | 1161.33           | 60.45          | 1100.88               |
|           | 02/07/00 | 1161.33           | 61.04          | 1100.29               |
|           | 04/05/00 | 1161.33           | 61.05          | 1100.28               |
|           | 07/15/00 | 1161.33           | 61.61          | 1099.72               |
|           | 10/11/00 | 1161.33           | 61.78          | 1099.55               |
|           | 10/27/00 | 1161.33           | 61.8           | 1099.53               |
| DM122-A   | 04/06/95 | 1143.84           | 51.3           | 1092.54               |
|           | 07/12/95 | 1143.84           | 51.3           | 1092.54               |
|           | 10/16/95 | 1143.84           | 50.2           | 1093.64               |
|           | 01/19/96 | 1143.84           | 51.7           | 1092.14               |
|           | 04/11/96 | 1143.84           | 51.76          | 1092.08               |
|           | 04/02/97 | 1143.84           | -999           | Dry                   |
|           | 07/24/97 | 1143.84           | -999           | Dry                   |
|           | 10/06/97 | 1143.84           | -999           | Dry                   |
|           | 01/27/98 | 1143.84           | -999           | Dry                   |
|           | 04/08/98 | 1143.84           | -999           | Dry                   |
|           | 08/06/98 | 1143.84           | -999           | Dry                   |
|           | 10/09/98 | 1143.84           | -999           | Dry                   |
|           | 07/08/99 | 1143.84           | -999           | Dry                   |
|           | 10/11/99 | 1143.84           | 57.16          | 1086.68               |
|           | 02/07/00 | 1143.84           | 59.69          | 1084.15               |
|           | 04/05/00 | 1143.84           | 58.32          | 1085.52               |
|           | 07/15/00 | 1143.84           | 58.99          | 1084.85               |
|           | 10/11/00 | 1143.84           | 57.56          | 1086.28               |
| DM122-B   | 04/06/95 | 1144.84           | 52.23          | 1092.61               |
|           | 05/02/95 | 1144.84           | 52             | 1092.84               |
|           | 07/12/95 | 1144.84           | 52.25          | 1092.59               |
|           | 10/16/95 | 1144.84           | 51.23          | 1093.61               |
|           | 01/19/96 | 1144.84           | 51.94          | 1092.9                |
|           | 04/11/96 | 1144.84           | 52.92          | 1091.92               |
|           | 07/01/96 | 1144.84           | -999           | Dry                   |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM122-B   | 10/03/96 | 1144.84           | -999           | Dry                   |
|           | 10/18/96 | 1144.84           | 52.95          | 1091.89               |
|           | 01/09/97 | 1144.87           | -999           | Dry                   |
|           | 04/02/97 | 1144.84           | 54.45          | 1090.39               |
|           | 07/24/97 | 1144.87           | 54.64          | 1090.23               |
|           | 10/06/97 | 1144.87           | 54.78          | 1090.09               |
|           | 10/21/97 | 1144.87           | 55.11          | 1089.76               |
|           | 01/27/98 | 1144.87           | 57.26          | 1087.61               |
|           | 04/08/98 | 1144.87           | 57.37          | 1087.5                |
|           | 08/06/98 | 1144.87           | 56.41          | 1088.46               |
|           | 10/09/98 | 1144.87           | 55.28          | 1089.59               |
|           | 11/04/98 | 1144.87           | 55.38          | 1089.49               |
|           | 04/08/99 | 1144.87           | 60.62          | 1084.25               |
|           | 07/08/99 | 1144.87           | 58.82          | 1086.05               |
|           | 10/11/99 | 1144.87           | 57.11          | 1087.76               |
|           | 12/21/99 | 1144.87           | 58.3           | 1086.57               |
|           | 02/07/00 | 1144.87           | 59.61          | 1085.26               |
|           | 04/05/00 | 1144.87           | 59.38          | 1085.49               |
|           | 07/15/00 | 1144.87           | 58.89          | 1085.98               |
|           | 10/11/00 | 1144.87           | 56.68          | 1088.19               |
|           | 10/26/00 | 1144.87           | 58.69          | 1086.18               |
| DM123-056 | 01/11/95 | 1157.91           | 54.7           | 1103.21               |
|           | 03/16/95 | 1157.91           | 52.04          | 1105.87               |
|           | 04/05/95 | 1157.91           | 54.71          | 1103.2                |
|           | 04/13/95 | 1157.91           | 48.5           | 1109.41               |
|           | 10/24/95 | 1157.91           | 55.72          | 1102.19               |
|           | 01/25/96 | 1157.91           | 55.65          | 1102.26               |
|           | 04/19/96 | 1157.91           | 56.25          | 1101.66               |
|           | 07/05/96 | 1157.91           | 56.36          | 1101.55               |
|           | 10/11/96 | 1157.91           | 56.62          | 1101.29               |
|           | 11/18/96 | 1157.91           | 60.77          | 1097.14               |
|           | 01/15/97 | 1157.91           | 56.15          | 1101.76               |
|           | 04/04/97 | 1157.91           | 56.31          | 1101.6                |
|           | 08/05/97 | 1157.91           | -999           | Dry                   |
|           | 10/10/97 | 1157.91           | 56.35          | 1101.56               |
|           | 01/28/98 | 1157.91           | -999           | Dry                   |
|           | 12/09/99 | 1157.91           | -999           | Dry                   |
|           | 02/22/00 | 1157.91           | 57.24          | 1100.67               |
|           | 04/25/00 | 1157.91           | 56.55          | 1101.36               |
| DM123-085 | 01/11/95 | 1157.91           | 54.7           | 1103.21               |
|           | 03/16/95 | 1157.91           | 55.34          | 1102.57               |
|           | 04/05/95 | 1157.91           | 54.71          | 1103.2                |
|           | 04/13/95 | 1157.91           | 55.67          | 1102.24               |
|           | 10/24/95 | 1157.91           | 54.98          | 1102.93               |
|           | 01/25/96 | 1157.91           | 55.79          | 1102.12               |
|           | 04/19/96 | 1157.91           | 56.26          | 1101.65               |
|           | 07/05/96 | 1157.91           | 56.54          | 1101.37               |
|           | 10/11/96 | 1157.91           | 56.81          | 1101.1                |
|           | 11/18/96 | 1157.91           | 56.62          | 1101.29               |
|           | 01/15/97 | 1157.91           | 57.2           | 1100.71               |
|           | 04/04/97 | 1157.91           | 58.27          | 1099.64               |
|           | 08/05/97 | 1157.91           | 61.35          | 1096.56               |
|           | 10/10/97 | 1157.91           | 58.53          | 1099.38               |
|           | 11/12/97 | 1157.91           | 58.79          | 1099.12               |
|           | 01/28/98 | 1157.91           | 59.82          | 1098.09               |
|           | 12/09/99 | 1157.91           | 60.53          | 1097.38               |
|           | 02/22/00 | 1157.91           | 62.26          | 1095.65               |
|           | 04/25/00 | 1157.91           | 61.66          | 1096.25               |
|           | 08/04/00 | 1157.91           | 64.51          | 1093.4                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM123-085 | 10/16/00 | 1157.91           | 61.3           | 1096.61               |
| DM123-105 | 11/18/96 | 1157.91           | 56.7           | 1101.21               |
|           | 01/15/97 | 1157.91           | 56.96          | 1100.95               |
|           | 04/04/97 | 1157.91           | 58.24          | 1099.67               |
|           | 08/05/97 | 1157.91           | 61.35          | 1096.56               |
|           | 10/10/97 | 1157.91           | 58.47          | 1099.44               |
|           | 11/12/97 | 1157.91           | 58.77          | 1099.14               |
|           | 01/28/98 | 1157.91           | 59.85          | 1098.06               |
|           | 12/09/99 | 1157.91           | 60.5           | 1097.41               |
|           | 02/22/00 | 1157.91           | 62.3           | 1095.61               |
|           | 04/25/00 | 1157.91           | 61.71          | 1096.2                |
|           | 08/04/00 | 1157.91           | 64.51          | 1093.4                |
|           | 10/16/00 | 1157.91           | 61.32          | 1096.59               |
| DM123-135 | 01/11/95 | 1157.91           | 54.73          | 1103.18               |
|           | 03/16/95 | 1157.91           | 55.43          | 1102.48               |
|           | 04/05/95 | 1157.91           | 54.8           | 1103.11               |
|           | 04/13/95 | 1157.91           | 55.72          | 1102.19               |
|           | 10/24/95 | 1157.91           | 55.15          | 1102.76               |
|           | 01/25/96 | 1157.91           | 55.8           | 1102.11               |
|           | 04/19/96 | 1157.91           | 56.29          | 1101.62               |
|           | 07/05/96 | 1157.91           | 56.36          | 1101.55               |
|           | 10/11/96 | 1157.91           | 56.51          | 1101.4                |
|           | 11/18/96 | 1157.91           | 56.69          | 1101.22               |
|           | 01/15/97 | 1157.91           | 57.12          | 1100.79               |
|           | 04/04/97 | 1157.91           | 58.23          | 1099.68               |
|           | 08/05/97 | 1157.91           | 61.31          | 1096.6                |
|           | 10/10/97 | 1157.91           | 58.49          | 1099.42               |
|           | 11/12/97 | 1157.91           | 58.72          | 1099.19               |
|           | 01/28/98 | 1157.91           | 59.85          | 1098.06               |
|           | 12/09/99 | 1157.91           | 60.56          | 1097.35               |
|           | 02/22/00 | 1157.91           | 62.31          | 1095.6                |
|           | 04/25/00 | 1157.91           | 61.69          | 1096.22               |
|           | 08/04/00 | 1157.91           | 64.43          | 1093.48               |
|           | 10/16/00 | 1157.91           | 61.21          | 1096.7                |
| DM123-155 | 11/18/96 | 1157.91           | 56.77          | 1101.14               |
|           | 01/15/97 | 1157.91           | 57.18          | 1100.73               |
|           | 04/04/97 | 1157.91           | 58.26          | 1099.65               |
|           | 08/05/97 | 1157.91           | 61.4           | 1096.51               |
|           | 10/10/97 | 1157.91           | 58.54          | 1099.37               |
|           | 11/12/97 | 1157.91           | 58.77          | 1099.14               |
|           | 01/28/98 | 1157.91           | 50.7           | 1107.21               |
|           | 12/09/99 | 1157.91           | 60.66          | 1097.25               |
|           | 02/22/00 | 1157.91           | 62.5           | 1095.41               |
|           | 04/25/00 | 1157.91           | 61.86          | 1096.05               |
|           | 08/04/00 | 1157.91           | 64.56          | 1093.35               |
|           | 10/16/00 | 1157.91           | 61.3           | 1096.61               |
| DM123-180 | 01/11/95 | 1157.91           | 54.84          | 1103.07               |
|           | 11/18/96 | 1157.91           | 56.71          | 1101.2                |
|           | 01/15/97 | 1157.91           | 57.33          | 1100.58               |
|           | 04/04/97 | 1157.91           | 58.35          | 1099.56               |
|           | 08/05/97 | 1157.91           | 61.42          | 1096.49               |
|           | 10/10/97 | 1157.91           | 58.54          | 1099.37               |
|           | 11/12/97 | 1157.91           | 58.8           | 1099.11               |
|           | 01/28/98 | 1157.91           | 59.92          | 1097.99               |
|           | 02/22/00 | 1157.91           | 62.55          | 1095.36               |
|           | 04/25/00 | 1157.91           | 61.87          | 1096.04               |
|           | 08/04/00 | 1157.91           | 64.54          | 1093.37               |
|           | 10/16/00 | 1157.91           | 61.33          | 1096.58               |
| DM123-195 | 01/11/95 | 1157.91           | 54.93          | 1102.98               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
 FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM123-195 | 03/16/95 | 1157.91           | 55.7           | 1102.21               |
|           | 04/05/95 | 1157.91           | 54.96          | 1102.95               |
|           | 04/13/95 | 1157.91           | 56.02          | 1101.89               |
|           | 10/24/95 | 1157.91           | 55.11          | 1102.8                |
|           | 01/25/96 | 1157.91           | 55.68          | 1102.23               |
|           | 04/19/96 | 1157.91           | 56.34          | 1101.57               |
|           | 07/05/96 | 1157.91           | 56.25          | 1101.66               |
|           | 10/11/96 | 1157.91           | 56.31          | 1101.6                |
|           | 11/18/96 | 1157.91           | 56.73          | 1101.18               |
|           | 01/15/97 | 1157.91           | 57.36          | 1100.55               |
|           | 04/04/97 | 1157.91           | 58.25          | 1099.66               |
|           | 08/05/97 | 1157.91           | 61.36          | 1096.55               |
|           | 10/10/97 | 1157.91           | 58.49          | 1099.42               |
|           | 11/12/97 | 1157.91           | 58.8           | 1099.11               |
|           | 01/28/98 | 1157.91           | 59.95          | 1097.96               |
|           | 12/09/99 | 1157.91           | 60.77          | 1097.14               |
|           | 02/22/00 | 1157.91           | 62.73          | 1095.18               |
|           | 04/25/00 | 1157.91           | 62.04          | 1095.87               |
|           | 08/04/00 | 1157.91           | 64.62          | 1093.29               |
|           | 10/16/00 | 1157.91           | 61.48          | 1096.43               |
| DM123-220 | 11/18/96 | 1157.91           | 56.81          | 1101.1                |
|           | 01/15/97 | 1157.91           | 57.46          | 1100.45               |
|           | 04/04/97 | 1157.91           | 58.43          | 1099.48               |
|           | 08/05/97 | 1157.91           | 61.43          | 1096.48               |
|           | 10/10/97 | 1157.91           | 58.64          | 1099.27               |
|           | 11/12/97 | 1157.91           | 58.92          | 1098.99               |
|           | 01/28/98 | 1157.91           | 60.14          | 1097.77               |
|           | 12/09/99 | 1157.91           | 60.87          | 1097.04               |
|           | 02/22/00 | 1157.91           | 62.78          | 1095.13               |
|           | 04/25/00 | 1157.91           | 62.08          | 1095.83               |
|           | 08/04/00 | 1157.91           | 64.68          | 1093.23               |
|           | 10/16/00 | 1157.91           | 61.52          | 1096.39               |
| DM123-250 | 01/11/95 | 1157.91           | 54.83          | 1103.08               |
|           | 03/16/95 | 1157.91           | 55.71          | 1102.2                |
|           | 04/05/95 | 1157.91           | 54.84          | 1103.07               |
|           | 04/13/95 | 1157.91           | 55.91          | 1102                  |
|           | 10/24/95 | 1157.91           | 55.42          | 1102.49               |
|           | 01/25/96 | 1157.91           | 55.73          | 1102.18               |
|           | 04/19/96 | 1157.91           | 56.52          | 1101.39               |
|           | 07/05/96 | 1157.91           | 56.45          | 1101.46               |
|           | 10/11/96 | 1157.91           | 56.45          | 1101.46               |
|           | 11/18/96 | 1157.91           | 56.76          | 1101.15               |
|           | 01/15/97 | 1157.91           | 57.51          | 1100.4                |
|           | 04/04/97 | 1157.91           | 58.42          | 1099.49               |
|           | 08/05/97 | 1157.91           | 61.47          | 1096.44               |
|           | 10/10/97 | 1157.91           | 58.65          | 1099.26               |
|           | 11/12/97 | 1157.91           | 58.94          | 1098.97               |
|           | 01/28/98 | 1157.91           | 60.03          | 1097.88               |
|           | 12/09/99 | 1157.91           | 60.8           | 1097.11               |
|           | 02/22/00 | 1157.91           | 62.79          | 1095.12               |
|           | 04/25/00 | 1157.91           | 61.97          | 1095.94               |
|           | 08/04/00 | 1157.91           | 64.59          | 1093.32               |
|           | 10/16/00 | 1157.91           | 61.38          | 1096.53               |
| DM123-270 | 11/18/96 | 1157.91           | 56.86          | 1101.05               |
|           | 01/15/97 | 1157.91           | 57.57          | 1100.34               |
|           | 04/04/97 | 1157.91           | 58.59          | 1099.32               |
|           | 08/05/97 | 1157.91           | 61.61          | 1096.3                |
|           | 10/10/97 | 1157.91           | 58.73          | 1099.18               |
|           | 11/12/97 | 1157.91           | 59.11          | 1098.8                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM123-270 | 01/28/98 | 1157.91           | 60.23          | 1097.68               |
|           | 12/09/99 | 1157.91           | 61             | 1096.91               |
|           | 02/22/00 | 1157.91           | 62.89          | 1095.02               |
|           | 04/25/00 | 1157.91           | 62.15          | 1095.76               |
|           | 08/04/00 | 1157.91           | 64.74          | 1093.17               |
|           | 10/16/00 | 1157.91           | 61.52          | 1096.39               |
| DM123-285 | 01/11/95 | 1157.91           | 55.19          | 1102.72               |
|           | 03/16/95 | 1157.91           | 55.91          | 1102                  |
|           | 04/05/95 | 1157.91           | 55.36          | 1102.55               |
|           | 04/13/95 | 1157.91           | 56.16          | 1101.75               |
|           | 10/24/95 | 1157.91           | 55.96          | 1101.95               |
|           | 01/25/96 | 1157.91           | 56.04          | 1101.87               |
|           | 04/19/96 | 1157.91           | 56.78          | 1101.13               |
|           | 07/05/96 | 1157.91           | 56.78          | 1101.13               |
|           | 10/11/96 | 1157.91           | 56.89          | 1101.02               |
|           | 11/18/96 | 1157.91           | 56.96          | 1100.95               |
|           | 01/15/97 | 1157.91           | 57.58          | 1100.33               |
|           | 04/04/97 | 1157.91           | 58.62          | 1099.29               |
|           | 08/05/97 | 1157.91           | 61.61          | 1096.3                |
|           | 10/10/97 | 1157.91           | 58.77          | 1099.14               |
|           | 11/12/97 | 1157.91           | 59.15          | 1098.76               |
|           | 01/28/98 | 1157.91           | 60.22          | 1097.69               |
|           | 12/09/99 | 1157.91           | 61             | 1096.91               |
|           | 02/22/00 | 1157.91           | 62.96          | 1094.95               |
|           | 04/25/00 | 1157.91           | 62.18          | 1095.73               |
|           | 08/04/00 | 1157.91           | 64.76          | 1093.15               |
|           | 10/16/00 | 1157.91           | 61.54          | 1096.37               |
| DM124     | 01/10/95 | 1168.65           | 34             | 1134.65               |
|           | 02/27/95 | 1168.65           | 35.08          | 1133.57               |
|           | 03/14/95 | 1168.65           | 35.12          | 1133.53               |
|           | 04/06/95 | 1168.65           | 34.8           | 1133.85               |
|           | 05/02/95 | 1168.65           | 35             | 1133.65               |
|           | 07/12/95 | 1168.65           | 35.85          | 1132.8                |
|           | 08/29/95 | 1168.65           | 35.86          | 1132.79               |
|           | 10/17/95 | 1168.65           | 35             | 1133.65               |
|           | 12/21/95 | 1168.65           | 35.01          | 1133.64               |
|           | 02/23/96 | 1168.65           | 34.83          | 1133.82               |
|           | 03/26/96 | 1168.65           | 34.91          | 1133.74               |
|           | 04/17/96 | 1168.65           | 34.6           | 1134.05               |
|           | 06/18/96 | 1168.65           | 34.9           | 1133.75               |
|           | 07/02/96 | 1168.65           | 33.72          | 1134.93               |
|           | 10/07/96 | 1168.65           | 33.75          | 1134.9                |
|           | 10/29/96 | 1168.65           | 36.08          | 1132.57               |
|           | 11/01/96 | 1168.65           | 36.08          | 1132.57               |
|           | 01/09/97 | 1168.65           | 33.27          | 1135.38               |
|           | 04/02/97 | 1168.65           | 36.25          | 1132.4                |
|           | 07/24/97 | 1168.65           | 36.54          | 1132.11               |
|           | 10/06/97 | 1168.65           | 36.96          | 1131.69               |
|           | 11/03/97 | 1168.65           | 37.1           | 1131.55               |
|           | 01/28/98 | 1168.65           | 37.44          | 1131.21               |
|           | 04/08/98 | 1168.65           | 36.91          | 1131.74               |
|           | 08/06/98 | 1168.65           | 36.39          | 1132.26               |
|           | 10/09/98 | 1168.65           | 36.78          | 1131.87               |
|           | 04/08/99 | 1168.65           | 37.35          | 1131.3                |
|           | 07/14/99 | 1168.65           | 37.2           | 1131.45               |
|           | 10/11/99 | 1168.65           | 36.55          | 1132.1                |
|           | 02/22/00 | 1168.65           | 36.98          | 1131.67               |
|           | 04/06/00 | 1168.65           | 37.24          | 1131.41               |
|           | 07/15/00 | 1168.65           | 37.01          | 1131.64               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM124     | 10/11/00 | 1168.65           | 37.02          | 1131.63               |
| DM125-044 | 01/10/95 | 1200.68           | 27.9           | 1172.78               |
|           | 02/06/95 | 1200.68           | 28.36          | 1172.32               |
|           | 02/28/95 | 1200.68           | 25.93          | 1174.75               |
|           | 03/15/95 | 1200.68           | 27.32          | 1173.36               |
|           | 04/04/95 | 1200.68           | 28.65          | 1172.03               |
|           | 04/13/95 | 1200.68           | 29.04          | 1171.64               |
|           | 05/30/95 | 1200.68           | 29.92          | 1170.76               |
|           | 06/15/95 | 1200.68           | 30.14          | 1170.54               |
|           | 07/19/95 | 1200.68           | 30.23          | 1170.45               |
|           | 10/23/95 | 1200.68           | 30.71          | 1169.97               |
|           | 11/21/95 | 1200.68           | 30.92          | 1169.76               |
|           | 01/25/96 | 1200.68           | 31.21          | 1169.47               |
|           | 02/27/96 | 1200.68           | 31.35          | 1169.33               |
|           | 03/27/96 | 1200.68           | 31.78          | 1168.9                |
|           | 04/18/96 | 1200.68           | 32.06          | 1168.62               |
|           | 05/28/96 | 1200.68           | 32.01          | 1168.67               |
|           | 06/11/96 | 1200.68           | 32.37          | 1168.31               |
|           | 07/09/96 | 1200.68           | 32.36          | 1168.32               |
|           | 08/15/96 | 1200.68           | 32.67          | 1168.01               |
|           | 10/02/96 | 1200.68           | 33.06          | 1167.62               |
|           | 08/28/97 | 1194.74           | 29.33          | 1165.41               |
|           | 08/29/97 | 1194.74           | 28.25          | 1166.49               |
|           | 09/03/97 | 1194.74           | 29.42          | 1165.32               |
|           | 09/30/97 | 1194.74           | 29.4           | 1165.34               |
|           | 10/14/97 | 1194.74           | 29.29          | 1165.45               |
|           | 11/28/97 | 1194.74           | 28.78          | 1165.96               |
|           | 12/19/97 | 1194.74           | 29.35          | 1165.39               |
|           | 01/28/98 | 1194.74           | 29.39          | 1165.35               |
|           | 04/23/98 | 1194.74           | 29.4           | 1165.34               |
|           | 07/29/98 | 1194.74           | 30.18          | 1164.56               |
|           | 10/15/98 | 1194.74           | 29.53          | 1165.21               |
|           | 04/08/99 | 1194.74           | 29.94          | 1164.8                |
|           | 07/09/99 | 1194.74           | 30.55          | 1164.19               |
|           | 11/02/99 | 1194.74           | 30.68          | 1164.06               |
|           | 02/15/00 | 1194.74           | 30.89          | 1163.85               |
|           | 04/08/00 | 1194.74           | 31.43          | 1163.31               |
|           | 10/16/00 | 1194.74           | 32.83          | 1161.91               |
| DM125-076 | 01/10/95 | 1200.68           | 27.94          | 1172.74               |
|           | 02/06/95 | 1200.68           | 28.49          | 1172.19               |
|           | 02/28/95 | 1200.68           | 26.08          | 1174.6                |
|           | 03/15/95 | 1200.68           | 27.46          | 1173.22               |
|           | 04/04/95 | 1200.68           | 28.82          | 1171.86               |
|           | 04/13/95 | 1200.68           | 29.13          | 1171.55               |
|           | 05/30/95 | 1200.68           | 30.02          | 1170.66               |
|           | 06/15/95 | 1200.68           | 30.29          | 1170.39               |
|           | 07/19/95 | 1200.68           | 30.29          | 1170.39               |
|           | 10/23/95 | 1200.68           | 30.74          | 1169.94               |
|           | 11/21/95 | 1200.68           | 30.83          | 1169.85               |
|           | 01/25/96 | 1200.68           | 31.25          | 1169.43               |
|           | 02/27/96 | 1200.68           | 31.47          | 1169.21               |
|           | 03/27/96 | 1200.68           | 31.92          | 1168.76               |
|           | 04/18/96 | 1200.68           | 32.13          | 1168.55               |
|           | 05/28/96 | 1200.68           | 32.13          | 1168.55               |
|           | 06/11/96 | 1200.68           | 35.03          | 1165.65               |
|           | 08/15/96 | 1200.68           | 32.94          | 1167.74               |
|           | 10/02/96 | 1200.68           | 33.14          | 1167.54               |
|           | 08/28/97 | 1194.74           | 29.66          | 1165.08               |
|           | 08/29/97 | 1194.74           | 28.47          | 1166.27               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM125-076 | 09/03/97 | 1194.74           | 29.7           | 1165.04               |
|           | 09/30/97 | 1194.74           | 29.75          | 1164.99               |
|           | 10/14/97 | 1194.74           | 29.66          | 1165.08               |
|           | 11/28/97 | 1194.74           | 29.55          | 1165.19               |
|           | 12/19/97 | 1194.74           | 26.35          | 1168.39               |
|           | 04/23/98 | 1194.74           | 29.89          | 1164.85               |
|           | 07/29/98 | 1194.74           | 30.6           | 1164.14               |
|           | 10/15/98 | 1194.74           | 30.06          | 1164.68               |
|           | 04/08/99 | 1194.74           | 30.39          | 1164.35               |
|           | 07/09/99 | 1194.74           | 31.06          | 1163.68               |
|           | 11/02/99 | 1194.74           | 31.11          | 1163.63               |
|           | 02/15/00 | 1194.74           | 31.45          | 1163.29               |
|           | 04/08/00 | 1194.74           | 31.95          | 1162.79               |
|           | 08/04/00 | 1194.74           | 32.77          | 1161.97               |
|           | 10/16/00 | 1194.74           | 33.73          | 1161.01               |
| DM125-125 | 01/10/95 | 1200.68           | 28.26          | 1172.42               |
|           | 02/06/95 | 1200.68           | 28.79          | 1171.89               |
|           | 02/28/95 | 1200.68           | 26.54          | 1174.14               |
|           | 03/15/95 | 1200.68           | 27.72          | 1172.96               |
|           | 04/04/95 | 1200.68           | 29.1           | 1171.58               |
|           | 04/13/95 | 1200.68           | 29.36          | 1171.32               |
|           | 05/30/95 | 1200.68           | 30.23          | 1170.45               |
|           | 06/15/95 | 1200.68           | 30.43          | 1170.25               |
|           | 07/19/95 | 1200.68           | 30.56          | 1170.12               |
|           | 10/23/95 | 1200.68           | 30.9           | 1169.78               |
|           | 11/21/95 | 1200.68           | 31.11          | 1169.57               |
|           | 01/25/96 | 1200.68           | 31.44          | 1169.24               |
|           | 02/27/96 | 1200.68           | 31.72          | 1168.96               |
|           | 03/27/96 | 1200.68           | 32.1           | 1168.58               |
|           | 04/18/96 | 1200.68           | 32.25          | 1168.43               |
|           | 05/28/96 | 1200.68           | 32.34          | 1168.34               |
|           | 06/11/96 | 1200.68           | 32.72          | 1167.96               |
|           | 07/09/96 | 1200.68           | 32.71          | 1167.97               |
|           | 08/15/96 | 1200.68           | 33.01          | 1167.67               |
|           | 10/02/96 | 1200.68           | 33.38          | 1167.3                |
|           | 08/28/97 | 1194.74           | 29.75          | 1164.99               |
|           | 08/29/97 | 1194.74           | 28.61          | 1166.13               |
|           | 09/03/97 | 1194.74           | 29.66          | 1165.08               |
|           | 09/30/97 | 1194.74           | 29.79          | 1164.95               |
|           | 10/14/97 | 1194.74           | 29.74          | 1165                  |
|           | 11/28/97 | 1194.74           | 29.9           | 1164.84               |
|           | 12/19/97 | 1194.74           | 29.82          | 1164.92               |
|           | 01/28/98 | 1194.74           | 29.9           | 1164.84               |
|           | 04/23/98 | 1194.74           | 30.01          | 1164.73               |
|           | 07/29/98 | 1194.74           | 30.65          | 1164.09               |
|           | 10/15/98 | 1194.74           | 30.11          | 1164.63               |
|           | 04/08/99 | 1194.74           | 30.54          | 1164.2                |
|           | 07/09/99 | 1194.74           | 31.16          | 1163.58               |
|           | 11/02/99 | 1194.74           | 31.23          | 1163.51               |
|           | 02/15/00 | 1194.74           | 31.56          | 1163.18               |
|           | 04/08/00 | 1194.74           | 32.16          | 1162.58               |
|           | 08/04/00 | 1194.74           | 33.34          | 1161.4                |
|           | 10/16/00 | 1194.74           | 34.1           | 1160.64               |
| DM125-140 | 08/28/97 | 1194.74           | 30             | 1164.74               |
|           | 08/29/97 | 1194.74           | 28.85          | 1165.89               |
|           | 09/03/97 | 1194.74           | 29.98          | 1164.76               |
|           | 09/30/97 | 1194.74           | 30.07          | 1164.67               |
|           | 10/14/97 | 1194.74           | 29.77          | 1164.97               |
|           | 11/28/97 | 1194.74           | 30.01          | 1164.73               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM125-140 | 12/19/97 | 1194.74           | 29.99          | 1164.75               |
|           | 01/28/98 | 1194.74           | 30.19          | 1164.55               |
|           | 04/23/98 | 1194.74           | 30.31          | 1164.43               |
|           | 07/29/98 | 1194.74           | 30.96          | 1163.78               |
|           | 10/15/98 | 1194.74           | 30.29          | 1164.45               |
|           | 04/08/99 | 1194.74           | 30.81          | 1163.93               |
|           | 07/09/99 | 1194.74           | 31.49          | 1163.25               |
|           | 11/02/99 | 1194.74           | 31.49          | 1163.25               |
|           | 02/15/00 | 1194.74           | 31.93          | 1162.81               |
|           | 04/08/00 | 1194.74           | 32.47          | 1162.27               |
|           | 08/04/00 | 1194.74           | 33.75          | 1160.99               |
|           | 10/16/00 | 1194.74           | 34.49          | 1160.25               |
| DM125-155 | 01/10/95 | 1200.68           | 28.8           | 1171.88               |
|           | 02/06/95 | 1200.68           | 29.32          | 1171.36               |
|           | 02/28/95 | 1200.68           | 27.47          | 1173.21               |
|           | 03/15/95 | 1200.68           | 28.29          | 1172.39               |
|           | 04/04/95 | 1200.68           | 29.55          | 1171.13               |
|           | 04/13/95 | 1200.68           | 29.81          | 1170.87               |
|           | 05/30/95 | 1200.68           | 30.77          | 1169.91               |
|           | 06/15/95 | 1200.68           | 30.88          | 1169.8                |
|           | 07/19/95 | 1200.68           | 30.88          | 1169.8                |
|           | 10/23/95 | 1200.68           | 31.35          | 1169.33               |
|           | 11/21/95 | 1200.68           | 31.51          | 1169.17               |
|           | 01/25/96 | 1200.68           | 30.97          | 1169.71               |
|           | 02/27/96 | 1200.68           | 32.15          | 1168.53               |
|           | 03/27/96 | 1200.68           | 32.3           | 1168.38               |
|           | 04/18/96 | 1200.68           | 32.72          | 1167.96               |
|           | 05/28/96 | 1200.68           | 32.81          | 1167.87               |
|           | 06/11/96 | 1200.68           | 33.06          | 1167.62               |
|           | 07/09/96 | 1200.68           | 33.03          | 1167.65               |
|           | 08/15/96 | 1200.68           | 33.41          | 1167.27               |
|           | 10/02/96 | 1200.68           | 33.67          | 1167.01               |
|           | 08/28/97 | 1194.74           | 30.1           | 1164.64               |
|           | 08/29/97 | 1194.74           | 28.95          | 1165.79               |
|           | 09/03/97 | 1194.74           | 30.15          | 1164.59               |
|           | 09/30/97 | 1194.74           | 30.11          | 1164.63               |
|           | 10/14/97 | 1194.74           | 30.1           | 1164.64               |
|           | 11/28/97 | 1194.74           | 30.1           | 1164.64               |
|           | 12/19/97 | 1194.74           | 30.15          | 1164.59               |
|           | 01/28/98 | 1194.74           | 30.27          | 1164.47               |
|           | 04/23/98 | 1194.74           | 30.32          | 1164.42               |
|           | 07/29/98 | 1194.74           | 31             | 1163.74               |
|           | 10/15/98 | 1194.74           | 30.39          | 1164.35               |
|           | 04/08/99 | 1194.74           | 30.84          | 1163.9                |
|           | 07/09/99 | 1194.74           | 31.51          | 1163.23               |
|           | 11/02/99 | 1194.74           | 31.54          | 1163.2                |
|           | 02/15/00 | 1194.74           | 31.94          | 1162.8                |
|           | 04/08/00 | 1194.74           | 32.46          | 1162.28               |
|           | 08/04/00 | 1194.74           | 33.82          | 1160.92               |
|           | 10/16/00 | 1194.74           | 34.56          | 1160.18               |
| DM125-170 | 08/28/97 | 1194.74           | 30.13          | 1164.61               |
|           | 08/29/97 | 1194.74           | 28.99          | 1165.75               |
|           | 09/03/97 | 1194.74           | 30.12          | 1164.62               |
|           | 09/30/97 | 1194.74           | 30.15          | 1164.59               |
|           | 10/14/97 | 1194.74           | 30.15          | 1164.59               |
|           | 11/28/97 | 1194.74           | 23.22          | 1171.52               |
|           | 12/19/97 | 1194.74           | 30.12          | 1164.62               |
|           | 01/28/98 | 1194.74           | 30.26          | 1164.48               |
|           | 04/23/98 | 1194.74           | 30.37          | 1164.37               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM125-170 | 07/29/98 | 1194.74           | 31             | 1163.74               |
|           | 10/15/98 | 1194.74           | 30.38          | 1164.36               |
|           | 04/08/99 | 1194.74           | 30.87          | 1163.87               |
|           | 07/09/99 | 1194.74           | 31.53          | 1163.21               |
|           | 11/02/99 | 1194.74           | 31.56          | 1163.18               |
|           | 02/15/00 | 1194.74           | 31.94          | 1162.8                |
|           | 04/08/00 | 1194.74           | 32.5           | 1162.24               |
|           | 08/04/00 | 1194.74           | 33.92          | 1160.82               |
| DM125-185 | 10/16/00 | 1194.74           | 34.63          | 1160.11               |
|           | 01/10/95 | 1200.68           | 28.87          | 1171.81               |
|           | 02/06/95 | 1200.68           | 29.55          | 1171.13               |
|           | 02/28/95 | 1200.68           | 27.64          | 1173.04               |
|           | 03/15/95 | 1200.68           | 28.48          | 1172.2                |
|           | 04/04/95 | 1200.68           | 29.67          | 1171.01               |
|           | 04/13/95 | 1200.68           | 30.01          | 1170.67               |
|           | 05/30/95 | 1200.68           | 30.81          | 1169.87               |
|           | 06/15/95 | 1200.68           | 31             | 1169.68               |
|           | 07/19/95 | 1200.68           | 31.01          | 1169.67               |
|           | 10/23/95 | 1200.68           | 31.03          | 1169.65               |
|           | 11/21/95 | 1200.68           | 31.66          | 1169.02               |
|           | 01/25/96 | 1200.68           | 24.37          | 1176.31               |
|           | 02/27/96 | 1200.68           | 32.25          | 1168.43               |
|           | 03/27/96 | 1200.68           | 32.44          | 1168.24               |
|           | 04/18/96 | 1200.68           | 32.86          | 1167.82               |
|           | 05/28/96 | 1200.68           | 32.9           | 1167.78               |
|           | 06/11/96 | 1200.68           | 32.92          | 1167.76               |
|           | 07/09/96 | 1200.68           | 32.87          | 1167.81               |
|           | 08/15/96 | 1200.68           | 32.46          | 1168.22               |
|           | 10/02/96 | 1200.68           | 33.77          | 1166.91               |
|           | 08/28/97 | 1194.74           | 30.15          | 1164.59               |
|           | 08/29/97 | 1194.74           | 29.03          | 1165.71               |
|           | 09/03/97 | 1194.74           | 30.17          | 1164.57               |
|           | 09/30/97 | 1194.74           | 30.22          | 1164.52               |
|           | 10/14/97 | 1194.74           | 30.19          | 1164.55               |
|           | 11/28/97 | 1194.74           | 30.14          | 1164.6                |
|           | 12/19/97 | 1194.74           | 29.94          | 1164.8                |
|           | 01/28/98 | 1194.74           | 30.26          | 1164.48               |
|           | 04/23/98 | 1194.74           | 30.42          | 1164.32               |
|           | 07/29/98 | 1194.74           | 31.06          | 1163.68               |
|           | 10/15/98 | 1194.74           | 30.4           | 1164.34               |
|           | 04/08/99 | 1194.74           | 30.91          | 1163.83               |
|           | 07/09/99 | 1194.74           | 31.55          | 1163.19               |
|           | 11/02/99 | 1194.74           | 31.54          | 1163.2                |
|           | 02/15/00 | 1194.74           | 31.99          | 1162.75               |
|           | 04/08/00 | 1194.74           | 32.28          | 1162.46               |
|           | 08/04/00 | 1194.74           | 34.05          | 1160.69               |
|           | 10/16/00 | 1194.74           | 34.79          | 1159.95               |
| DM125-200 | 08/28/97 | 1194.74           | 30.21          | 1164.53               |
|           | 08/29/97 | 1194.74           | 28.98          | 1165.76               |
|           | 09/03/97 | 1194.74           | 30.16          | 1164.58               |
|           | 09/30/97 | 1194.74           | 30.19          | 1164.55               |
|           | 10/14/97 | 1194.74           | 29.74          | 1165                  |
|           | 11/28/97 | 1194.74           | 30.05          | 1164.69               |
|           | 12/19/97 | 1194.74           | 29.68          | 1165.06               |
|           | 01/28/98 | 1194.74           | 29.43          | 1165.31               |
|           | 04/23/98 | 1194.74           | 30.62          | 1164.12               |
|           | 07/29/98 | 1194.74           | 31.18          | 1163.56               |
|           | 10/15/98 | 1194.74           | 29.35          | 1165.39               |
|           | 04/08/99 | 1194.74           | 31.03          | 1163.71               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM125-200 | 07/09/99 | 1194.74           | 31.77          | 1162.97               |
|           | 11/02/99 | 1194.74           | 31.24          | 1163.5                |
|           | 02/15/00 | 1194.74           | 32.12          | 1162.62               |
|           | 04/08/00 | 1194.74           | 31.66          | 1163.08               |
|           | 08/04/00 | 1194.74           | 34.33          | 1160.41               |
|           | 10/16/00 | 1194.74           | 35.13          | 1159.61               |
| DM125-225 | 08/28/97 | 1194.74           | 31.37          | 1163.37               |
|           | 08/29/97 | 1194.74           | 29.07          | 1165.67               |
|           | 09/03/97 | 1194.74           | 30.15          | 1164.59               |
|           | 09/30/97 | 1194.74           | 30.2           | 1164.54               |
|           | 10/14/97 | 1194.74           | 30.13          | 1164.61               |
|           | 11/28/97 | 1194.74           | 30.38          | 1164.36               |
|           | 12/19/97 | 1194.74           | 29.79          | 1164.95               |
|           | 01/28/98 | 1194.74           | 30.23          | 1164.51               |
|           | 04/23/98 | 1194.74           | 31.02          | 1163.72               |
|           | 07/29/98 | 1194.74           | 31.13          | 1163.61               |
|           | 10/15/98 | 1194.74           | 29.16          | 1165.58               |
|           | 04/08/99 | 1194.74           | 29.59          | 1165.15               |
|           | 07/09/99 | 1194.74           | 31.65          | 1163.09               |
|           | 11/02/99 | 1194.74           | 31.71          | 1163.03               |
|           | 02/15/00 | 1194.74           | 31.71          | 1163.03               |
|           | 04/08/00 | 1194.74           | 32.01          | 1162.73               |
|           | 08/04/00 | 1194.74           | 34.39          | 1160.35               |
|           | 10/16/00 | 1194.74           | 35.17          | 1159.57               |
| DM125-270 | 01/10/95 | 1200.68           | 29.13          | 1171.55               |
|           | 02/06/95 | 1200.68           | 30.67          | 1170.01               |
|           | 02/28/95 | 1200.68           | 28.57          | 1172.11               |
|           | 03/15/95 | 1200.68           | 28.85          | 1171.83               |
|           | 04/04/95 | 1200.68           | 29.84          | 1170.84               |
|           | 04/13/95 | 1200.68           | 30.27          | 1170.41               |
|           | 05/30/95 | 1200.68           | 31.06          | 1169.62               |
|           | 06/15/95 | 1200.68           | 30.8           | 1169.88               |
|           | 07/19/95 | 1200.68           | 31.4           | 1169.28               |
|           | 10/23/95 | 1200.68           | 31.45          | 1169.23               |
|           | 11/21/95 | 1200.68           | 31.65          | 1169.03               |
|           | 01/25/96 | 1200.68           | 31.18          | 1169.5                |
|           | 02/27/96 | 1200.68           | 32.28          | 1168.4                |
|           | 03/27/96 | 1200.68           | 32.66          | 1168.02               |
|           | 04/18/96 | 1200.68           | 32.86          | 1167.82               |
|           | 05/28/96 | 1200.68           | 32.95          | 1167.73               |
|           | 06/11/96 | 1200.68           | 33.36          | 1167.32               |
|           | 07/09/96 | 1200.68           | 33.35          | 1167.33               |
|           | 08/15/96 | 1200.68           | 33.83          | 1166.85               |
|           | 10/02/96 | 1200.68           | 33.7           | 1166.98               |
|           | 08/28/97 | 1194.74           | 30.11          | 1164.63               |
|           | 08/29/97 | 1194.74           | 28.97          | 1165.77               |
|           | 09/03/97 | 1194.74           | 30.05          | 1164.69               |
|           | 09/30/97 | 1194.74           | 30.15          | 1164.59               |
|           | 10/14/97 | 1194.74           | 30.05          | 1164.69               |
|           | 11/28/97 | 1194.74           | 30.28          | 1164.46               |
|           | 12/19/97 | 1194.74           | 29.99          | 1164.75               |
|           | 01/28/98 | 1194.74           | 29.66          | 1165.08               |
|           | 04/23/98 | 1194.74           | 30.56          | 1164.18               |
|           | 07/29/98 | 1194.74           | 30.96          | 1163.78               |
|           | 10/15/98 | 1194.74           | 30.63          | 1164.11               |
|           | 04/08/99 | 1194.74           | 31.16          | 1163.58               |
|           | 07/09/99 | 1194.74           | 31.85          | 1162.89               |
|           | 11/02/99 | 1194.74           | 31.77          | 1162.97               |
|           | 02/15/00 | 1194.74           | 32.05          | 1162.69               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM125-270 | 04/08/00 | 1194.74           | 32.93          | 1161.81               |
|           | 08/04/00 | 1194.74           | 34.52          | 1160.22               |
|           | 10/16/00 | 1194.74           | 35.21          | 1159.53               |
| DM201     | 01/09/95 | 1194.61           | 28.56          | 1166.05               |
|           | 02/23/95 | 1194.61           | 94.28          | 1100.33               |
|           | 03/14/95 | 1194.61           | 94.8           | 1099.81               |
|           | 04/06/95 | 1194.61           | 93.7           | 1100.91               |
|           | 05/11/95 | 1194.61           | 86.5           | 1108.11               |
|           | 06/07/95 | 1194.61           | 90.91          | 1103.7                |
|           | 07/05/95 | 1194.61           | 90.91          | 1103.7                |
|           | 07/24/95 | 1194.61           | 93.8           | 1100.81               |
|           | 08/17/95 | 1194.61           | 91.23          | 1103.38               |
|           | 09/13/95 | 1194.61           | 93             | 1101.61               |
|           | 10/17/95 | 1194.61           | 88.4           | 1106.21               |
|           | 11/10/95 | 1194.61           | 30.14          | 1164.47               |
|           | 12/06/95 | 1194.61           | 93.21          | 1101.4                |
|           | 12/18/95 | 1194.61           | 91.55          | 1103.06               |
|           | 01/18/96 | 1194.61           | 92.39          | 1102.22               |
|           | 01/19/96 | 1194.61           | 34.87          | 1159.74               |
|           | 02/26/96 | 1194.61           | 31.89          | 1162.72               |
|           | 03/15/96 | 1194.61           | 92.3           | 1102.31               |
|           | 04/01/96 | 1194.61           | 32.93          | 1161.68               |
|           | 05/10/96 | 1194.61           | 94.61          | 1100                  |
|           | 05/28/96 | 1194.61           | 89.12          | 1105.49               |
|           | 06/18/96 | 1194.61           | 89.8           | 1104.81               |
|           | 07/01/96 | 1194.61           | 91.76          | 1102.85               |
|           | 08/07/96 | 1194.61           | 87.98          | 1106.63               |
|           | 09/30/96 | 1194.61           | 81.72          | 1112.89               |
|           | 10/07/96 | 1194.61           | 81.79          | 1112.82               |
|           | 11/12/96 | 1194.61           | 88.52          | 1106.09               |
|           | 11/21/96 | 1194.61           | 88.52          | 1106.09               |
|           | 12/16/96 | 1194.61           | 88.1           | 1106.51               |
|           | 12/31/96 | 1194.61           | 81.35          | 1113.26               |
|           | 01/15/97 | 1194.61           | 87.27          | 1107.34               |
|           | 02/18/97 | 1194.61           | 86.1           | 1108.51               |
|           | 03/31/97 | 1194.61           | 91.45          | 1103.16               |
|           | 04/02/97 | 1194.61           | 84.03          | 1110.58               |
|           | 05/06/97 | 1194.61           | 92.79          | 1101.82               |
|           | 05/30/97 | 1194.61           | 88.2           | 1106.41               |
|           | 06/30/97 | 1194.61           | 91.35          | 1103.26               |
|           | 07/28/97 | 1194.61           | 93.29          | 1101.32               |
|           | 08/25/97 | 1194.61           | 94.44          | 1100.17               |
|           | 09/30/97 | 1194.61           | 95             | 1099.61               |
|           | 10/09/97 | 1194.61           | 88.9           | 1105.71               |
|           | 11/26/97 | 1194.61           | 33.1           | 1161.51               |
|           | 12/30/97 | 1194.61           | 93.55          | 1101.06               |
|           | 01/26/98 | 1194.61           | 93.2           | 1101.41               |
|           | 04/07/98 | 1194.61           | 94.62          | 1099.99               |
|           | 07/29/98 | 1194.61           | 94.63          | 1099.98               |
|           | 10/09/98 | 1194.61           | 40.41          | 1154.2                |
|           | 04/08/99 | 1194.61           | 93.93          | 1100.68               |
|           | 07/09/99 | 1194.61           | 93.81          | 1100.8                |
|           | 10/12/99 | 1194.61           | 94.02          | 1100.59               |
|           | 02/07/00 | 1194.61           | 95.37          | 1099.24               |
|           | 04/05/00 | 1194.61           | 94.67          | 1099.94               |
|           | 08/09/00 | 1194.61           | 96.05          | 1098.56               |
|           | 10/06/00 | 1194.61           | 96.44          | 1098.17               |
|           | 11/01/00 | 1194.61           | 93.55          | 1101.06               |
| DM201-OB1 | 01/09/95 | 1195.75           | 29.1           | 1166.65               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM201-OB1 | 02/27/95 | 1195.75           | 36.72          | 1159.03               |
|           | 03/14/95 | 1195.75           | 53.88          | 1141.87               |
|           | 04/06/95 | 1195.75           | 33.9           | 1161.85               |
|           | 05/11/95 | 1195.75           | 31.8           | 1163.95               |
|           | 06/07/95 | 1195.75           | 50.67          | 1145.08               |
|           | 07/05/95 | 1195.75           | 53.47          | 1142.28               |
|           | 07/24/95 | 1195.75           | 58.34          | 1137.41               |
|           | 08/17/95 | 1195.75           | 52.67          | 1143.08               |
|           | 09/13/95 | 1195.75           | 58.23          | 1137.52               |
|           | 10/17/95 | 1195.75           | 53.51          | 1142.24               |
|           | 11/10/95 | 1195.75           | 31.36          | 1164.39               |
|           | 12/06/95 | 1195.75           | 54.56          | 1141.19               |
|           | 12/18/95 | 1195.75           | 55.55          | 1140.2                |
|           | 01/18/96 | 1195.75           | 51.09          | 1144.66               |
|           | 02/26/96 | 1195.75           | 32.89          | 1162.86               |
|           | 03/18/96 | 1195.75           | 55.65          | 1140.1                |
|           | 04/01/96 | 1195.75           | 32.79          | 1162.96               |
|           | 05/08/96 | 1195.75           | 54.38          | 1141.37               |
|           | 05/28/96 | 1195.75           | 57.48          | 1138.27               |
|           | 06/18/96 | 1195.75           | 58.3           | 1137.45               |
|           | 07/01/96 | 1195.75           | 43.8           | 1151.95               |
|           | 08/07/96 | 1195.75           | 57.27          | 1138.48               |
|           | 09/30/96 | 1195.75           | 36.54          | 1159.21               |
|           | 10/07/96 | 1195.75           | 36.02          | 1159.73               |
|           | 11/21/96 | 1195.75           | 59             | 1136.75               |
|           | 12/31/96 | 1195.75           | 55.7           | 1140.05               |
|           | 01/15/97 | 1195.75           | 42.6           | 1153.15               |
|           | 02/17/97 | 1195.75           | 47.7           | 1148.05               |
|           | 03/31/97 | 1195.75           | 46.5           | 1149.25               |
|           | 04/02/97 | 1195.75           | 33.85          | 1161.9                |
|           | 05/30/97 | 1195.75           | 35.15          | 1160.6                |
|           | 06/19/97 | 1195.75           | 54.7           | 1141.05               |
|           | 06/30/97 | 1195.75           | 38.47          | 1157.28               |
|           | 07/25/97 | 1195.75           | 53.8           | 1141.95               |
|           | 08/25/97 | 1195.75           | 53.72          | 1142.03               |
|           | 09/30/97 | 1195.75           | 51.5           | 1144.25               |
|           | 10/09/97 | 1195.75           | 43.5           | 1152.25               |
|           | 11/06/97 | 1195.75           | 53.34          | 1142.41               |
|           | 12/30/97 | 1195.75           | 32.15          | 1163.6                |
|           | 01/26/98 | 1195.75           | 50.38          | 1145.37               |
|           | 04/07/98 | 1195.75           | 46.5           | 1149.25               |
|           | 07/29/98 | 1195.75           | 45.25          | 1150.5                |
|           | 10/09/98 | 1195.75           | 31.94          | 1163.81               |
|           | 04/08/99 | 1195.75           | 47.75          | 1148                  |
|           | 07/15/99 | 1195.75           | 48.61          | 1147.14               |
|           | 10/12/99 | 1195.75           | 48.45          | 1147.3                |
|           | 02/07/00 | 1195.75           | 48.42          | 1147.33               |
|           | 04/05/00 | 1195.75           | 45.37          | 1150.38               |
|           | 08/09/00 | 1195.75           | 45.03          | 1150.72               |
|           | 10/06/00 | 1195.75           | 44.77          | 1150.98               |
| DM201-OB2 | 01/09/95 | 1194.79           | 29.5           | 1165.29               |
|           | 02/27/95 | 1194.79           | 36.09          | 1158.7                |
|           | 03/14/95 | 1194.79           | 37.29          | 1157.5                |
|           | 04/06/95 | 1194.79           | 36.37          | 1158.42               |
|           | 05/17/95 | 1194.79           | 37.12          | 1157.67               |
|           | 06/07/95 | 1194.79           | 39.28          | 1155.51               |
|           | 07/05/95 | 1194.79           | 38.3           | 1156.49               |
|           | 08/17/95 | 1194.79           | 38.32          | 1156.47               |
|           | 09/13/95 | 1194.79           | 62.3           | 1132.49               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM201-OB2 | 10/17/95 | 1194.79           | 34.41          | 1160.38               |
|           | 11/10/95 | 1194.79           | 30.72          | 1164.07               |
|           | 12/07/95 | 1194.79           | 39.57          | 1155.22               |
|           | 12/18/95 | 1194.79           | 40.4           | 1154.39               |
|           | 01/18/96 | 1194.79           | 38.24          | 1156.55               |
|           | 02/29/96 | 1194.79           | 32.02          | 1162.77               |
|           | 03/18/96 | 1194.79           | 41.59          | 1153.2                |
|           | 04/02/96 | 1194.79           | 33.04          | 1161.75               |
|           | 05/06/96 | 1194.79           | 42.01          | 1152.78               |
|           | 06/24/96 | 1194.79           | 43.87          | 1150.92               |
|           | 07/01/96 | 1194.79           | 42.1           | 1152.69               |
|           | 08/08/96 | 1194.79           | 43.8           | 1150.99               |
|           | 09/30/96 | 1194.79           | 42.72          | 1152.07               |
|           | 10/07/96 | 1194.71           | 39.68          | 1155.03               |
|           | 11/07/96 | 1194.71           | 41.9           | 1152.81               |
|           | 12/31/96 | 1194.71           | 42.05          | 1152.66               |
|           | 01/15/97 | 1194.79           | 42.75          | 1152.04               |
|           | 02/17/97 | 1194.79           | 42.35          | 1152.44               |
|           | 03/20/97 | 1194.79           | 37.65          | 1157.14               |
|           | 04/02/97 | 1194.79           | 41.98          | 1152.81               |
|           | 05/01/97 | 1194.79           | 37.53          | 1157.26               |
|           | 06/30/97 | 1194.79           | 41.32          | 1153.47               |
|           | 07/25/97 | 1194.79           | 39.02          | 1155.77               |
|           | 08/25/97 | 1194.79           | 38.07          | 1156.72               |
|           | 09/30/97 | 1194.79           | 36.68          | 1158.11               |
|           | 10/09/97 | 1194.79           | 35.3           | 1159.49               |
|           | 10/30/97 | 1194.79           | 35.66          | 1159.13               |
|           | 11/26/97 | 1194.79           | 34.94          | 1159.85               |
|           | 12/30/97 | 1194.79           | 32.71          | 1162.08               |
|           | 01/26/98 | 1194.79           | 36.25          | 1158.54               |
|           | 04/07/98 | 1194.79           | 36.46          | 1158.33               |
|           | 07/29/98 | 1194.79           | 36.57          | 1158.22               |
|           | 10/09/98 | 1194.79           | 35.6           | 1159.19               |
|           | 04/08/99 | 1194.79           | 39.91          | 1154.88               |
|           | 07/15/99 | 1194.79           | 41.02          | 1153.77               |
|           | 10/12/99 | 1194.79           | 39.87          | 1154.92               |
|           | 02/07/00 | 1194.79           | 40.98          | 1153.81               |
|           | 04/05/00 | 1194.79           | 41.02          | 1153.77               |
|           | 08/09/00 | 1194.79           | 40.79          | 1154                  |
|           | 10/06/00 | 1194.79           | 39.22          | 1155.57               |
| DM301     | 01/20/95 | 1212.86           | 38.22          | 1174.64               |
|           | 02/14/95 | 1212.86           | 36             | 1176.86               |
|           | 03/27/95 | 1212.86           | 37             | 1175.86               |
|           | 05/12/95 | 1212.86           | 35.65          | 1177.21               |
|           | 06/16/95 | 1212.86           | 35.7           | 1177.16               |
|           | 07/11/95 | 1212.86           | 35.7           | 1177.16               |
|           | 08/30/95 | 1212.86           | 36.85          | 1176.01               |
|           | 09/30/95 | 1212.86           | 36.9           | 1175.96               |
|           | 10/17/95 | 1212.86           | 35.76          | 1177.1                |
|           | 10/30/95 | 1212.86           | 37.48          | 1175.38               |
|           | 11/10/95 | 1212.86           | 37.58          | 1175.28               |
|           | 12/05/95 | 1212.86           | 37.7           | 1175.16               |
|           | 12/27/95 | 1212.86           | 32.85          | 1180.01               |
|           | 01/12/96 | 1212.86           | 37.62          | 1175.24               |
|           | 02/23/96 | 1212.86           | 38.62          | 1174.24               |
|           | 03/26/96 | 1212.86           | 39.05          | 1173.81               |
|           | 04/17/96 | 1212.86           | 38.18          | 1174.68               |
|           | 05/10/96 | 1212.86           | 39.48          | 1173.38               |
|           | 05/16/96 | 1212.86           | 39.48          | 1173.38               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM301   | 06/18/96 | 1212.86           | 38.52          | 1174.34               |
|         | 07/03/96 | 1212.86           | 37.81          | 1175.05               |
|         | 08/08/96 | 1212.86           | 37.92          | 1174.94               |
|         | 09/25/96 | 1212.86           | 37.86          | 1175                  |
|         | 10/09/96 | 1212.86           | 37.68          | 1175.18               |
|         | 11/18/96 | 1212.86           | 38.44          | 1174.42               |
|         | 12/31/96 | 1212.86           | 37.7           | 1175.16               |
|         | 01/15/97 | 1212.86           | 37.06          | 1175.8                |
|         | 02/18/97 | 1212.86           | 37.19          | 1175.67               |
|         | 03/31/97 | 1212.86           | 37.41          | 1175.45               |
|         | 04/03/97 | 1212.86           | 42.14          | 1170.72               |
|         | 05/28/97 | 1212.86           | 46.79          | 1166.07               |
|         | 06/30/97 | 1212.86           | 41.8           | 1171.06               |
|         | 07/31/97 | 1212.86           | 42.3           | 1170.56               |
|         | 08/26/97 | 1212.86           | 42.57          | 1170.29               |
|         | 09/30/97 | 1212.86           | 42.63          | 1170.23               |
|         | 10/15/97 | 1212.86           | 53.2           | 1159.66               |
|         | 11/07/97 | 1212.86           | 42.59          | 1170.27               |
|         | 12/01/97 | 1212.86           | 41.5           | 1171.36               |
|         | 12/31/97 | 1212.86           | 43.28          | 1169.58               |
|         | 03/31/98 | 1212.86           | 43.08          | 1169.78               |
|         | 04/13/98 | 1212.86           | 42.8           | 1170.06               |
|         | 07/30/98 | 1212.86           | 40             | 1172.86               |
|         | 10/12/98 | 1212.86           | 39.42          | 1173.44               |
|         | 04/12/99 | 1212.86           | 44.12          | 1168.74               |
|         | 07/16/99 | 1212.86           | 46.13          | 1166.73               |
|         | 10/13/99 | 1212.86           | 46.4           | 1166.46               |
|         | 02/08/00 | 1212.86           | 47.06          | 1165.8                |
|         | 04/07/00 | 1212.86           | 43.97          | 1168.89               |
|         | 08/22/00 | 1212.86           | 48.32          | 1164.54               |
|         | 10/05/00 | 1212.86           | 47.7           | 1165.16               |
|         | 11/01/00 | 1212.86           | 52.54          | 1160.32               |
| DM302   | 01/20/95 | 1212.46           | 37.37          | 1175.09               |
|         | 02/14/95 | 1212.46           | 36.66          | 1175.8                |
|         | 03/22/95 | 1212.46           | 34.2           | 1178.26               |
|         | 04/05/95 | 1212.46           | 34.2           | 1178.26               |
|         | 05/12/95 | 1212.46           | 38.02          | 1174.44               |
|         | 06/16/95 | 1212.46           | 38             | 1174.46               |
|         | 07/11/95 | 1212.46           | 38.3           | 1174.16               |
|         | 08/30/95 | 1212.46           | 37.14          | 1175.32               |
|         | 09/30/95 | 1212.46           | 37.65          | 1174.81               |
|         | 10/17/95 | 1212.46           | 38             | 1174.46               |
|         | 10/30/95 | 1212.46           | 38.2           | 1174.26               |
|         | 11/10/95 | 1212.46           | 38.25          | 1174.21               |
|         | 12/27/95 | 1212.46           | 33.01          | 1179.45               |
|         | 01/12/96 | 1212.46           | 38.2           | 1174.26               |
|         | 02/23/96 | 1212.46           | 38.34          | 1174.12               |
|         | 03/26/96 | 1212.46           | 39.44          | 1173.02               |
|         | 04/10/96 | 1212.46           | 37.41          | 1175.05               |
|         | 05/10/96 | 1212.46           | 39.47          | 1172.99               |
|         | 05/16/96 | 1212.46           | 39.47          | 1172.99               |
|         | 06/18/96 | 1212.46           | 38.55          | 1173.91               |
|         | 07/03/96 | 1212.46           | 37.23          | 1175.23               |
|         | 08/08/96 | 1212.46           | 37.68          | 1174.78               |
|         | 09/25/96 | 1212.46           | 37.92          | 1174.54               |
|         | 10/09/96 | 1212.46           | 37.55          | 1174.91               |
|         | 11/18/96 | 1212.46           | 38.82          | 1173.64               |
|         | 12/31/96 | 1212.46           | 37.61          | 1174.85               |
|         | 01/15/97 | 1212.46           | 38.32          | 1174.14               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM302   | 02/18/97 | 1212.46           | 38.37          | 1174.09               |
|         | 03/31/97 | 1212.46           | 38.66          | 1173.8                |
|         | 04/03/97 | 1212.46           | 38.48          | 1173.98               |
|         | 05/08/97 | 1212.46           | 38.76          | 1173.7                |
|         | 05/28/97 | 1212.46           | 39.07          | 1173.39               |
|         | 06/30/97 | 1212.46           | 39.7           | 1172.76               |
|         | 07/31/97 | 1212.46           | 31.2           | 1181.26               |
|         | 08/26/97 | 1212.46           | 38.33          | 1174.13               |
|         | 09/30/97 | 1212.46           | 41.4           | 1171.06               |
|         | 10/15/97 | 1212.46           | 41.67          | 1170.79               |
|         | 11/06/97 | 1212.46           | 41.85          | 1170.61               |
|         | 12/01/97 | 1212.46           | 41.85          | 1170.61               |
|         | 12/31/97 | 1212.46           | 41.1           | 1171.36               |
|         | 03/31/98 | 1212.46           | 41.85          | 1170.61               |
|         | 04/13/98 | 1212.46           | 41.57          | 1170.89               |
|         | 07/30/98 | 1212.46           | 39.48          | 1172.98               |
|         | 10/12/98 | 1212.46           | 38.9           | 1173.56               |
|         | 04/12/99 | 1212.46           | 43.45          | 1169.01               |
|         | 07/16/99 | 1212.46           | 48.26          | 1164.2                |
|         | 10/13/99 | 1212.46           | 49.11          | 1163.35               |
|         | 02/08/00 | 1212.46           | 49.06          | 1163.4                |
|         | 04/07/00 | 1212.46           | 43.52          | 1168.94               |
|         | 08/16/00 | 1212.46           | 52.74          | 1159.72               |
|         | 10/05/00 | 1212.46           | 48.54          | 1163.92               |
|         | 11/01/00 | 1212.46           | 50.46          | 1162                  |
| DM303   | 01/20/95 | 1209.43           | 34.77          | 1174.66               |
|         | 02/14/95 | 1209.43           | 34.25          | 1175.18               |
|         | 03/22/95 | 1209.43           | 31.57          | 1177.86               |
|         | 04/05/95 | 1209.43           | 31.57          | 1177.86               |
|         | 05/12/95 | 1209.43           | 35.79          | 1173.64               |
|         | 06/16/95 | 1209.43           | 34.86          | 1174.57               |
|         | 07/11/95 | 1209.43           | 34.85          | 1174.58               |
|         | 08/30/95 | 1209.43           | 33.9           | 1175.53               |
|         | 09/30/95 | 1209.43           | 35.5           | 1173.93               |
|         | 10/17/95 | 1209.43           | 34.59          | 1174.84               |
|         | 10/30/95 | 1209.43           | 35.94          | 1173.49               |
|         | 11/10/95 | 1209.43           | 35.9           | 1173.53               |
|         | 12/05/95 | 1209.43           | 36.05          | 1173.38               |
|         | 12/26/95 | 1209.43           | 32.08          | 1177.35               |
|         | 01/12/96 | 1209.43           | 35.91          | 1173.52               |
|         | 02/23/96 | 1209.43           | 36.23          | 1173.2                |
|         | 03/26/96 | 1209.43           | 37.52          | 1171.91               |
|         | 04/10/96 | 1209.43           | 37.19          | 1172.24               |
|         | 05/10/96 | 1209.43           | 35.75          | 1173.68               |
|         | 05/16/96 | 1209.43           | 35.75          | 1173.68               |
|         | 06/18/96 | 1209.43           | 36.05          | 1173.38               |
|         | 07/03/96 | 1209.43           | 36.95          | 1172.48               |
|         | 08/08/96 | 1209.43           | 37.1           | 1172.33               |
|         | 09/25/96 | 1209.43           | 37.15          | 1172.28               |
|         | 10/09/96 | 1209.43           | 37.12          | 1172.31               |
|         | 11/18/96 | 1209.43           | 36.61          | 1172.82               |
|         | 12/31/96 | 1209.43           | 37.15          | 1172.28               |
|         | 01/24/97 | 1209.43           | 35.39          | 1174.04               |
|         | 02/17/97 | 1209.43           | 36.43          | 1173                  |
|         | 03/31/97 | 1209.43           | 36.91          | 1172.52               |
|         | 04/03/97 | 1209.43           | -999           | Dry                   |
|         | 04/18/97 | 1209.43           | 36.82          | 1172.61               |
|         | 05/09/97 | 1209.43           | 36.82          | 1172.61               |
|         | 05/30/97 | 1209.43           | 37             | 1172.43               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM303   | 06/30/97 | 1209.43           | 39.24          | 1170.19               |
|         | 07/30/97 | 1209.43           | 37.8           | 1171.63               |
|         | 08/26/97 | 1209.43           | 35.68          | 1173.75               |
|         | 09/30/97 | 1209.43           | 38.45          | 1170.98               |
|         | 10/15/97 | 1209.43           | 38.9           | 1170.53               |
|         | 11/07/97 | 1209.43           | 39.2           | 1170.23               |
|         | 12/01/97 | 1209.43           | 39.6           | 1169.83               |
|         | 12/30/97 | 1209.43           | 38             | 1171.43               |
|         | 01/27/98 | 1209.43           | 38.59          | 1170.84               |
|         | 04/08/98 | 1209.43           | 39.1           | 1170.33               |
|         | 07/30/98 | 1209.43           | 36.82          | 1172.61               |
|         | 10/09/98 | 1209.43           | 36.15          | 1173.28               |
|         | 04/09/99 | 1209.43           | 41.42          | 1168.01               |
|         | 07/16/99 | 1209.43           | 43.07          | 1166.36               |
|         | 10/12/99 | 1209.43           | 43.52          | 1165.91               |
|         | 02/09/00 | 1209.43           | 44.83          | 1164.6                |
|         | 04/07/00 | 1209.43           | 42.08          | 1167.35               |
|         | 08/04/00 | 1209.43           | 48.29          | 1161.14               |
|         | 10/10/00 | 1209.43           | 48.28          | 1161.15               |
|         | 11/01/00 | 1209.43           | 48.3           | 1161.13               |
| DM304   | 01/20/95 | 1209.19           | 38.05          | 1171.14               |
|         | 02/14/95 | 1209.19           | 37             | 1172.19               |
|         | 03/22/95 | 1209.19           | 31.4           | 1177.79               |
|         | 04/05/95 | 1209.19           | 31.4           | 1177.79               |
|         | 05/12/95 | 1209.19           | 37.54          | 1171.65               |
|         | 06/16/95 | 1209.19           | 37.5           | 1171.69               |
|         | 07/11/95 | 1209.19           | 37.31          | 1171.88               |
|         | 08/30/95 | 1209.19           | 38.1           | 1171.09               |
|         | 09/30/95 | 1209.19           | 32.9           | 1176.29               |
|         | 10/17/95 | 1209.19           | 37.59          | 1171.6                |
|         | 10/30/95 | 1209.19           | 35.25          | 1173.94               |
|         | 11/10/95 | 1209.19           | 36.59          | 1172.6                |
|         | 12/26/95 | 1209.19           | 31.7           | 1177.49               |
|         | 01/12/96 | 1209.19           | 36.53          | 1172.66               |
|         | 02/23/96 | 1209.19           | 33.09          | 1176.1                |
|         | 03/26/96 | 1209.19           | 34.25          | 1174.94               |
|         | 04/10/96 | 1209.19           | 31.8           | 1177.39               |
|         | 05/10/96 | 1209.19           | 42.87          | 1166.32               |
|         | 05/16/96 | 1209.19           | 42.87          | 1166.32               |
|         | 06/18/96 | 1209.19           | 42.66          | 1166.53               |
|         | 07/03/96 | 1209.19           | 31.15          | 1178.04               |
|         | 08/08/96 | 1209.19           | 31.19          | 1178                  |
|         | 09/25/96 | 1209.19           | 43.15          | 1166.04               |
|         | 10/09/96 | 1209.19           | 41.92          | 1167.27               |
|         | 11/18/96 | 1209.19           | 37.5           | 1171.69               |
|         | 12/31/96 | 1209.19           | 41.3           | 1167.89               |
|         | 01/24/97 | 1209.19           | 39.41          | 1169.78               |
|         | 02/17/97 | 1209.19           | 43.5           | 1165.69               |
|         | 03/31/97 | 1209.19           | 43.62          | 1165.57               |
|         | 04/03/97 | 1209.19           | 39.19          | 1170                  |
|         | 05/07/97 | 1209.19           | 40.7           | 1168.49               |
|         | 05/30/97 | 1209.19           | 42.4           | 1166.79               |
|         | 06/30/97 | 1209.19           | 26.98          | 1182.21               |
|         | 07/30/97 | 1209.19           | 44.2           | 1164.99               |
|         | 08/26/97 | 1209.19           | 35.53          | 1173.66               |
|         | 09/30/97 | 1209.19           | 44.8           | 1164.39               |
|         | 10/15/97 | 1209.19           | 45.96          | 1163.23               |
|         | 11/06/97 | 1209.19           | 45.59          | 1163.6                |
|         | 12/01/97 | 1209.19           | 45.15          | 1164.04               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM304   | 12/30/97 | 1209.19           | 41.5           | 1167.69               |
|         | 01/27/98 | 1209.19           | 42.13          | 1167.06               |
|         | 04/08/98 | 1209.19           | 40.16          | 1169.03               |
|         | 07/30/98 | 1209.19           | 36.41          | 1172.78               |
|         | 10/09/98 | 1209.19           | 35.88          | 1173.31               |
|         | 04/09/99 | 1209.19           | 46.74          | 1162.45               |
|         | 07/16/99 | 1209.19           | 48.51          | 1160.68               |
|         | 10/12/99 | 1209.19           | 41.08          | 1168.11               |
|         | 02/09/00 | 1209.19           | 46.57          | 1162.62               |
|         | 04/07/00 | 1209.19           | 46.71          | 1162.48               |
|         | 08/04/00 | 1209.19           | 44.84          | 1164.35               |
| DM305   | 10/10/00 | 1209.19           | 44.35          | 1164.84               |
|         | 11/01/00 | 1209.19           | 43.81          | 1165.38               |
|         | 01/16/95 | 1185.73           | 72.42          | 1113.31               |
|         | 02/14/95 | 1185.73           | 74.2           | 1111.53               |
|         | 03/22/95 | 1185.73           | 72.68          | 1113.05               |
|         | 04/29/95 | 1185.73           | 74.43          | 1111.3                |
|         | 05/12/95 | 1185.73           | 74.4           | 1111.33               |
|         | 06/16/95 | 1185.73           | 63.15          | 1122.58               |
|         | 07/25/95 | 1185.73           | 62.37          | 1123.36               |
|         | 08/30/95 | 1185.73           | 74.35          | 1111.38               |
|         | 09/30/95 | 1185.73           | 75.99          | 1109.74               |
|         | 10/30/95 | 1185.73           | 82.5           | 1103.23               |
|         | 11/10/95 | 1185.73           | 78.75          | 1106.98               |
|         | 12/28/95 | 1185.73           | 53.01          | 1132.72               |
|         | 01/31/96 | 1185.73           | 72.85          | 1112.88               |
|         | 02/23/96 | 1185.73           | 78.4           | 1107.33               |
|         | 03/26/96 | 1185.73           | 71.7           | 1114.03               |
|         | 04/10/96 | 1185.73           | 74.73          | 1111                  |
|         | 05/09/96 | 1185.73           | 96.73          | 1089                  |
|         | 05/23/96 | 1185.73           | 98             | 1087.73               |
|         | 06/18/96 | 1185.73           | 86.6           | 1099.13               |
|         | 07/03/96 | 1185.73           | 86.3           | 1099.43               |
|         | 08/07/96 | 1185.73           | 79.11          | 1106.62               |
|         | 09/25/96 | 1185.73           | 81.1           | 1104.63               |
|         | 10/09/96 | 1185.73           | 77.85          | 1107.88               |
|         | 11/12/96 | 1185.73           | 75.15          | 1110.58               |
|         | 12/31/96 | 1185.73           | 80.75          | 1104.98               |
|         | 01/28/97 | 1185.73           | 92.72          | 1093.01               |
|         | 02/24/97 | 1185.73           | 94.1           | 1091.63               |
|         | 03/31/97 | 1185.73           | 78.7           | 1107.03               |
|         | 04/03/97 | 1185.73           | 72.7           | 1113.03               |
|         | 05/09/97 | 1185.73           | 79.5           | 1106.23               |
|         | 05/30/97 | 1185.73           | 73.1           | 1112.63               |
|         | 06/30/97 | 1185.73           | 81.5           | 1104.23               |
|         | 07/31/97 | 1185.73           | 81.7           | 1104.03               |
|         | 08/29/97 | 1185.73           | 78.75          | 1106.98               |
|         | 09/30/97 | 1185.73           | 76.1           | 1109.63               |
|         | 10/31/97 | 1185.73           | 77.3           | 1108.43               |
|         | 11/07/97 | 1185.73           | 79             | 1106.73               |
|         | 12/01/97 | 1185.73           | 75.28          | 1110.45               |
|         | 12/31/97 | 1185.73           | 90.2           | 1095.53               |
|         | 03/30/98 | 1185.73           | 76.2           | 1109.53               |
|         | 06/09/98 | 1185.73           | 95.84          | 1089.89               |
|         | 08/27/98 | 1185.73           | 92.2           | 1093.53               |
|         | 10/30/98 | 1185.73           | 61.68          | 1124.05               |
|         | 11/30/98 | 1185.73           | 62.05          | 1123.68               |
|         | 12/06/98 | 1185.73           | 91.95          | 1093.78               |
|         | 01/04/99 | 1185.73           | 76.95          | 1108.78               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM305   | 01/30/99 | 1185.73           | 84.97          | 1100.76               |
|         | 02/26/99 | 1185.73           | 74.2           | 1111.53               |
|         | 03/31/99 | 1185.73           | 78.4           | 1107.33               |
|         | 05/28/99 | 1185.73           | 81.3           | 1104.43               |
|         | 07/30/99 | 1185.73           | 74.85          | 1110.88               |
|         | 11/30/99 | 1185.73           | 82.95          | 1102.78               |
|         | 12/16/99 | 1185.73           | 89.2           | 1096.53               |
|         | 02/16/00 | 1185.73           | 96.45          | 1089.28               |
|         | 04/25/00 | 1185.73           | 110.68         | 1075.05               |
|         | 07/15/00 | 1185.73           | 102.04         | 1083.69               |
|         | 10/10/00 | 1185.73           | 82.18          | 1103.55               |
|         | 12/01/00 | 1185.73           | 102.1          | 1083.63               |
| DM306   | 01/16/95 | 1181.04           | 71.2           | 1109.84               |
|         | 02/14/95 | 1181.04           | 71.7           | 1109.34               |
|         | 03/22/95 | 1181.04           | 74             | 1107.04               |
|         | 04/29/95 | 1181.04           | 75.33          | 1105.71               |
|         | 05/12/95 | 1181.04           | 74.3           | 1106.74               |
|         | 06/16/95 | 1181.04           | 72.3           | 1108.74               |
|         | 07/25/95 | 1181.04           | 59.78          | 1121.26               |
|         | 08/30/95 | 1181.04           | 57.65          | 1123.39               |
|         | 09/30/95 | 1181.04           | 57.3           | 1123.74               |
|         | 10/30/95 | 1181.04           | 54.1           | 1126.94               |
|         | 11/10/95 | 1181.04           | 58.03          | 1123.01               |
|         | 11/22/95 | 1181.04           | 54.1           | 1126.94               |
|         | 12/28/95 | 1181.04           | 57.35          | 1123.69               |
|         | 01/05/96 | 1181.04           | 90.3           | 1090.74               |
|         | 01/31/96 | 1181.04           | 73.51          | 1107.53               |
|         | 02/23/96 | 1181.04           | 74.29          | 1106.75               |
|         | 03/26/96 | 1181.04           | 82.1           | 1098.94               |
|         | 04/10/96 | 1181.04           | 85.65          | 1095.39               |
|         | 05/03/96 | 1181.04           | 95.29          | 1085.75               |
|         | 05/23/96 | 1181.04           | 95.35          | 1085.69               |
|         | 06/18/96 | 1181.04           | 95.39          | 1085.65               |
|         | 07/03/96 | 1181.04           | 97.65          | 1083.39               |
|         | 08/07/96 | 1181.04           | 95.3           | 1085.74               |
|         | 09/25/96 | 1181.04           | 94.55          | 1086.49               |
|         | 10/09/96 | 1181.04           | 95.35          | 1085.69               |
|         | 11/06/96 | 1181.04           | 95.1           | 1085.94               |
|         | 12/31/96 | 1181.04           | 75.9           | 1105.14               |
|         | 01/28/97 | 1181.04           | 95.38          | 1085.66               |
|         | 02/24/97 | 1181.04           | 91.82          | 1089.22               |
|         | 03/31/97 | 1181.04           | 95.4           | 1085.64               |
|         | 04/04/97 | 1181.04           | 95.35          | 1085.69               |
|         | 04/24/97 | 1181.04           | 95.35          | 1085.69               |
|         | 05/30/97 | 1181.04           | 63.3           | 1117.74               |
|         | 06/30/97 | 1181.04           | 95.35          | 1085.69               |
|         | 07/31/97 | 1181.04           | 93.45          | 1087.59               |
|         | 08/29/97 | 1181.04           | 95.62          | 1085.42               |
|         | 09/30/97 | 1181.04           | 64.6           | 1116.44               |
|         | 10/31/97 | 1181.04           | 83.15          | 1097.89               |
|         | 12/01/97 | 1181.04           | 83.7           | 1097.34               |
|         | 12/31/97 | 1181.04           | 99.1           | 1081.94               |
|         | 03/30/98 | 1181.04           | 83.4           | 1097.64               |
|         | 06/09/98 | 1181.04           | 99.5           | 1081.54               |
|         | 08/27/98 | 1181.04           | 101.2          | 1079.84               |
|         | 10/30/98 | 1181.04           | 65.35          | 1115.69               |
|         | 11/30/98 | 1181.04           | 65.23          | 1115.81               |
|         | 01/04/99 | 1181.04           | 87.7           | 1093.34               |
|         | 01/30/99 | 1181.04           | 99.95          | 1081.09               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM306   | 02/26/99 | 1181.04           | 100            | 1081.04               |
|         | 03/31/99 | 1184.04           | 94.2           | 1089.84               |
|         | 05/28/99 | 1181.04           | 96.55          | 1084.49               |
|         | 07/30/99 | 1181.04           | 98.8           | 1082.24               |
|         | 11/30/99 | 1181.04           | 67.66          | 1113.38               |
|         | 12/16/99 | 1181.04           | 74.34          | 1106.7                |
|         | 02/16/00 | 1181.04           | 68.4           | 1112.64               |
|         | 04/25/00 | 1181.04           | 88.73          | 1092.31               |
|         | 10/10/00 | 1181.04           | 102.3          | 1078.74               |
|         | 12/01/00 | 1181.04           | 101.2          | 1079.84               |
| DM307   | 01/16/95 | 1177.64           | 84.1           | 1093.54               |
|         | 02/14/95 | 1177.64           | 80.9           | 1096.74               |
|         | 03/22/95 | 1177.64           | 84.3           | 1093.34               |
|         | 04/29/95 | 1177.64           | 82.53          | 1095.11               |
|         | 05/12/95 | 1177.64           | 82.65          | 1094.99               |
|         | 06/16/95 | 1177.64           | 81.9           | 1095.74               |
|         | 07/25/95 | 1177.64           | 78.18          | 1099.46               |
|         | 08/30/95 | 1177.64           | 85.05          | 1092.59               |
|         | 09/30/95 | 1177.64           | 93.3           | 1084.34               |
|         | 10/30/95 | 1177.64           | 83.4           | 1094.24               |
|         | 11/10/95 | 1177.64           | 85.7           | 1091.94               |
|         | 12/28/95 | 1177.64           | 60.18          | 1117.46               |
|         | 01/31/96 | 1177.64           | 85.3           | 1092.34               |
|         | 02/23/96 | 1177.64           | 88.45          | 1089.19               |
|         | 03/26/96 | 1177.64           | 81.85          | 1095.79               |
|         | 04/10/96 | 1177.64           | 88.25          | 1089.39               |
|         | 05/09/96 | 1177.64           | 92.35          | 1085.29               |
|         | 05/23/96 | 1177.64           | 87.9           | 1089.74               |
|         | 06/18/96 | 1177.64           | 89.32          | 1088.32               |
|         | 07/03/96 | 1177.64           | 98.15          | 1079.49               |
|         | 08/07/96 | 1177.64           | 88.6           | 1089.04               |
|         | 09/25/96 | 1177.64           | 88             | 1089.64               |
|         | 10/09/96 | 1177.64           | 89.3           | 1088.34               |
|         | 11/12/96 | 1177.64           | 88.22          | 1089.42               |
|         | 12/31/96 | 1177.64           | 83.6           | 1094.04               |
|         | 01/28/97 | 1177.64           | 91             | 1086.64               |
|         | 02/24/97 | 1177.64           | 88             | 1089.64               |
|         | 03/31/97 | 1177.64           | 91.1           | 1086.54               |
|         | 04/04/97 | 1177.64           | 85.2           | 1092.44               |
|         | 05/09/97 | 1177.64           | 94.9           | 1082.74               |
|         | 05/30/97 | 1177.64           | 86.05          | 1091.59               |
|         | 06/30/97 | 1177.64           | 95.2           | 1082.44               |
|         | 07/31/97 | 1177.64           | 91.15          | 1086.49               |
|         | 08/29/97 | 1177.64           | 88.9           | 1088.74               |
|         | 09/30/97 | 1177.64           | 89             | 1088.64               |
|         | 10/31/97 | 1177.64           | 88.7           | 1088.94               |
|         | 11/05/97 | 1177.64           | 91.26          | 1086.38               |
|         | 12/01/97 | 1177.64           | 90.1           | 1087.54               |
|         | 12/31/97 | 1177.64           | 86.7           | 1090.94               |
|         | 03/30/98 | 1177.64           | 85.09          | 1092.55               |
|         | 06/09/98 | 1177.64           | 86.4           | 1091.24               |
|         | 08/27/98 | 1177.64           | 86.64          | 1091                  |
|         | 10/30/98 | 1177.64           | 68.2           | 1109.44               |
|         | 11/30/98 | 1177.64           | 68.92          | 1108.72               |
|         | 12/06/98 | 1177.64           | 85.46          | 1092.18               |
|         | 01/04/99 | 1177.64           | 86.52          | 1091.12               |
|         | 01/30/99 | 1177.64           | 89.25          | 1088.39               |
|         | 02/26/99 | 1177.64           | 93.25          | 1084.39               |
|         | 03/31/99 | 1177.64           | 88             | 1089.64               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM307   | 05/28/99 | 1177.64           | 87.92          | 1089.72               |
|         | 07/30/99 | 1177.64           | 89.7           | 1087.94               |
|         | 11/30/99 | 1177.64           | 91.9           | 1085.74               |
|         | 12/16/99 | 1177.64           | 90.76          | 1086.88               |
|         | 02/16/00 | 1177.64           | 88.03          | 1089.61               |
|         | 04/25/00 | 1177.64           | 92.64          | 1085                  |
|         | 07/15/00 | 1177.64           | 93.28          | 1084.36               |
|         | 10/10/00 | 1177.64           | 93.55          | 1084.09               |
| DM308   | 12/01/00 | 1177.64           | 93.41          | 1084.23               |
|         | 01/16/95 | 1177.63           | 83.59          | 1094.04               |
|         | 02/14/95 | 1177.63           | 80.4           | 1097.23               |
|         | 03/22/95 | 1177.63           | 82.98          | 1094.65               |
|         | 04/29/95 | 1177.63           | 82.78          | 1094.85               |
|         | 05/12/95 | 1177.63           | 85.3           | 1092.33               |
|         | 06/16/95 | 1177.63           | 83.33          | 1094.3                |
|         | 07/12/95 | 1177.63           | 83.41          | 1094.22               |
|         | 07/25/95 | 1177.63           | 77.45          | 1100.18               |
|         | 08/30/95 | 1177.63           | 62.4           | 1115.23               |
|         | 09/30/95 | 1177.63           | 77.45          | 1100.18               |
|         | 10/30/95 | 1177.63           | 78.6           | 1099.03               |
|         | 11/10/95 | 1177.63           | 79.25          | 1098.38               |
|         | 12/05/95 | 1177.63           | 79.83          | 1097.8                |
|         | 12/28/95 | 1177.63           | 61.4           | 1116.23               |
|         | 01/31/96 | 1177.63           | 78.72          | 1098.91               |
|         | 02/23/96 | 1177.63           | 79.4           | 1098.23               |
|         | 03/26/96 | 1177.63           | 80.14          | 1097.49               |
|         | 04/10/96 | 1177.63           | 84.28          | 1093.35               |
|         | 05/03/96 | 1177.63           | 86.63          | 1091                  |
|         | 05/23/96 | 1177.63           | 93.83          | 1083.8                |
|         | 06/18/96 | 1177.63           | 93.65          | 1083.98               |
|         | 07/03/96 | 1177.63           | 100.1          | 1077.53               |
|         | 08/07/96 | 1177.63           | 84.36          | 1093.27               |
|         | 09/25/96 | 1177.63           | 85.9           | 1091.73               |
|         | 10/09/96 | 1177.63           | 85.7           | 1091.93               |
|         | 11/06/96 | 1177.63           | 86.8           | 1090.83               |
|         | 12/31/96 | 1177.63           | 84.05          | 1093.58               |
|         | 01/28/97 | 1177.63           | 87.7           | 1089.93               |
|         | 02/24/97 | 1177.63           | 87.4           | 1090.23               |
|         | 03/31/97 | 1177.63           | 87.6           | 1090.03               |
|         | 04/04/97 | 1177.63           | 87.55          | 1090.08               |
|         | 05/02/97 | 1177.63           | 85.8           | 1091.83               |
|         | 05/30/97 | 1177.63           | 83             | 1094.63               |
|         | 06/30/97 | 1177.63           | 91.51          | 1086.12               |
|         | 07/31/97 | 1177.63           | 93.55          | 1084.08               |
|         | 08/29/97 | 1177.63           | 87.72          | 1089.91               |
|         | 09/30/97 | 1177.63           | 91.38          | 1086.25               |
|         | 10/31/97 | 1177.63           | 82.1           | 1095.53               |
|         | 12/01/97 | 1177.63           | 91.71          | 1085.92               |
|         | 12/31/97 | 1177.63           | 89.45          | 1088.18               |
|         | 03/30/98 | 1177.63           | 84.15          | 1093.48               |
|         | 06/09/98 | 1177.63           | 85.86          | 1091.77               |
|         | 08/27/98 | 1177.63           | 85.98          | 1091.65               |
|         | 10/30/98 | 1177.63           | 71.15          | 1106.48               |
|         | 11/30/98 | 1177.63           | 70.1           | 1107.53               |
|         | 12/06/98 | 1177.63           | 85.52          | 1092.11               |
|         | 01/04/99 | 1177.63           | 85.65          | 1091.98               |
|         | 01/30/99 | 1177.63           | 85.15          | 1092.48               |
|         | 02/26/99 | 1177.63           | 99.3           | 1078.33               |
|         | 03/31/99 | 1177.63           | 84.62          | 1093.01               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM308   | 05/28/99 | 1177.63           | 88.35          | 1089.28               |
|         | 07/30/99 | 1177.63           | 88.55          | 1089.08               |
|         | 11/30/99 | 1177.63           | 88.3           | 1089.33               |
|         | 12/16/99 | 1177.63           | 85.81          | 1091.82               |
|         | 02/16/00 | 1177.63           | 105.85         | 1071.78               |
|         | 04/25/00 | 1177.63           | 90.94          | 1086.69               |
|         | 07/15/00 | 1177.63           | 88.95          | 1088.68               |
|         | 10/09/00 | 1177.63           | 91.95          | 1085.68               |
| DM309   | 12/01/00 | 1177.63           | 91.28          | 1086.35               |
|         | 01/16/95 | 1174.88           | 84.93          | 1089.95               |
|         | 02/14/95 | 1174.88           | 83.6           | 1091.28               |
|         | 03/22/95 | 1174.88           | 85.32          | 1089.56               |
|         | 04/29/95 | 1174.88           | 86.48          | 1088.4                |
|         | 05/12/95 | 1174.88           | 86.8           | 1088.08               |
|         | 06/16/95 | 1174.88           | 89.48          | 1085.4                |
|         | 07/12/95 | 1174.88           | 88.53          | 1086.35               |
|         | 07/25/95 | 1174.88           | 91.8           | 1083.08               |
|         | 08/30/95 | 1174.88           | 85.42          | 1089.46               |
|         | 09/30/95 | 1174.88           | 84.57          | 1090.31               |
|         | 10/30/95 | 1174.88           | 84.6           | 1090.28               |
|         | 11/10/95 | 1174.88           | 85.19          | 1089.69               |
|         | 12/28/95 | 1174.88           | 61.92          | 1112.96               |
|         | 01/31/96 | 1174.88           | 84.68          | 1090.2                |
|         | 02/23/96 | 1174.88           | 85.1           | 1089.78               |
|         | 03/26/96 | 1174.88           | 84.2           | 1090.68               |
|         | 04/10/96 | 1174.88           | 85.29          | 1089.59               |
|         | 05/03/96 | 1174.88           | 86.68          | 1088.2                |
|         | 05/23/96 | 1174.88           | 86.84          | 1088.04               |
|         | 06/18/96 | 1174.88           | 87.7           | 1087.18               |
|         | 07/03/96 | 1174.88           | 98.6           | 1076.28               |
|         | 08/07/96 | 1174.88           | 87.78          | 1087.1                |
|         | 09/25/96 | 1174.88           | 88.11          | 1086.77               |
|         | 10/09/96 | 1174.88           | 88.7           | 1086.18               |
|         | 11/06/96 | 1174.88           | 84.7           | 1090.18               |
|         | 12/31/96 | 1174.88           | 86.8           | 1088.08               |
|         | 01/28/97 | 1174.88           | 88.88          | 1086                  |
|         | 02/24/97 | 1174.88           | 89.08          | 1085.8                |
|         | 03/31/97 | 1174.88           | 89.3           | 1085.58               |
|         | 04/04/97 | 1174.88           | 89.45          | 1085.43               |
|         | 05/02/97 | 1174.88           | 87.94          | 1086.94               |
|         | 05/30/97 | 1174.88           | 87.1           | 1087.78               |
|         | 06/30/97 | 1174.88           | 71.7           | 1103.18               |
|         | 07/31/97 | 1174.88           | 83.65          | 1091.23               |
|         | 08/29/97 | 1174.88           | 83.65          | 1091.23               |
|         | 09/30/97 | 1174.88           | 82.4           | 1092.48               |
|         | 10/31/97 | 1174.88           | 82.6           | 1092.28               |
|         | 12/01/97 | 1174.88           | 71.35          | 1103.53               |
|         | 12/31/97 | 1174.88           | 80.58          | 1094.3                |
|         | 03/30/98 | 1174.88           | 81.87          | 1093.01               |
|         | 06/09/98 | 1174.88           | 82.39          | 1092.49               |
|         | 08/27/98 | 1174.88           | 81.83          | 1093.05               |
|         | 10/30/98 | 1174.88           | 70.5           | 1104.38               |
|         | 11/30/98 | 1174.88           | 71.65          | 1103.23               |
|         | 12/06/98 | 1174.88           | 88.22          | 1086.66               |
|         | 01/04/99 | 1174.88           | 88.41          | 1086.47               |
|         | 01/30/99 | 1174.88           | 89.65          | 1085.23               |
|         | 02/26/99 | 1174.88           | 90.17          | 1084.71               |
|         | 03/31/99 | 1174.88           | 89.28          | 1085.6                |
|         | 05/28/99 | 1174.88           | 90.45          | 1084.43               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM309   | 07/30/99 | 1174.88           | 90.3           | 1084.58               |
|         | 11/30/99 | 1174.88           | 91.15          | 1083.73               |
|         | 12/16/99 | 1174.88           | 91.04          | 1083.84               |
|         | 02/16/00 | 1174.88           | 91.86          | 1083.02               |
|         | 04/25/00 | 1174.88           | 97.71          | 1077.17               |
|         | 07/15/00 | 1174.88           | 97.55          | 1077.33               |
|         | 10/09/00 | 1174.88           | 98.71          | 1076.17               |
|         | 12/01/00 | 1174.88           | 98.53          | 1076.35               |
| DM310   | 01/16/95 | 1175.17           | 74.53          | 1100.64               |
|         | 02/14/95 | 1175.17           | 72.45          | 1102.72               |
|         | 03/22/95 | 1175.17           | 75.05          | 1100.12               |
|         | 04/29/95 | 1175.17           | 76.89          | 1098.28               |
|         | 05/12/95 | 1175.17           | 77.4           | 1097.77               |
|         | 06/16/95 | 1175.17           | 79.37          | 1095.8                |
|         | 07/12/95 | 1175.17           | 63.45          | 1111.72               |
|         | 07/25/95 | 1175.17           | 80.03          | 1095.14               |
|         | 08/30/95 | 1175.17           | 85.4           | 1089.77               |
|         | 09/30/95 | 1175.17           | 78.22          | 1096.95               |
|         | 10/30/95 | 1175.17           | 78.3           | 1096.87               |
|         | 11/10/95 | 1175.17           | 81.14          | 1094.03               |
|         | 12/05/95 | 1175.17           | 81.05          | 1094.12               |
|         | 12/28/95 | 1175.17           | 61.84          | 1113.33               |
|         | 01/31/96 | 1175.17           | 80.65          | 1094.52               |
|         | 02/23/96 | 1175.17           | 80.75          | 1094.42               |
|         | 03/26/96 | 1175.17           | 76.1           | 1099.07               |
|         | 04/10/96 | 1175.17           | 81             | 1094.17               |
|         | 05/03/96 | 1175.17           | 82.19          | 1092.98               |
|         | 05/23/96 | 1175.17           | 81.28          | 1093.89               |
|         | 06/18/96 | 1175.17           | 82.7           | 1092.47               |
|         | 07/03/96 | 1175.17           | 92.08          | 1083.09               |
|         | 08/07/96 | 1175.17           | 87.2           | 1087.97               |
|         | 09/25/96 | 1175.17           | 81.1           | 1094.07               |
|         | 10/09/96 | 1175.17           | 88.1           | 1087.07               |
|         | 11/06/96 | 1175.17           | 85.8           | 1089.37               |
|         | 12/31/96 | 1175.17           | 80             | 1095.17               |
|         | 01/28/97 | 1175.17           | 87.15          | 1088.02               |
|         | 02/24/97 | 1175.17           | 82.54          | 1092.63               |
|         | 03/31/97 | 1175.17           | 87.2           | 1087.97               |
|         | 04/04/97 | 1175.17           | 83.52          | 1091.65               |
|         | 05/02/97 | 1175.17           | 82.4           | 1092.77               |
|         | 05/30/97 | 1175.17           | 80             | 1095.17               |
|         | 06/30/97 | 1175.17           | 85.82          | 1089.35               |
|         | 07/31/97 | 1175.17           | 86.9           | 1088.27               |
|         | 08/29/97 | 1175.17           | 82.3           | 1092.87               |
|         | 09/30/97 | 1175.17           | 94.6           | 1080.57               |
|         | 10/31/97 | 1175.17           | 94.2           | 1080.97               |
|         | 12/01/97 | 1175.17           | 84.6           | 1090.57               |
|         | 12/31/97 | 1175.17           | 85.4           | 1089.77               |
|         | 03/30/98 | 1175.17           | 81.45          | 1093.72               |
|         | 06/09/98 | 1175.17           | 84.79          | 1090.38               |
|         | 08/27/98 | 1175.17           | 86.06          | 1089.11               |
|         | 10/30/98 | 1175.17           | 70.7           | 1104.47               |
|         | 11/30/98 | 1175.17           | 71.45          | 1103.72               |
|         | 12/06/98 | 1175.17           | 84.26          | 1090.91               |
|         | 01/04/99 | 1175.17           | 80.3           | 1094.87               |
|         | 01/30/99 | 1175.17           | 96.9           | 1078.27               |
|         | 02/26/99 | 1175.17           | 97.35          | 1077.82               |
|         | 03/31/99 | 1175.17           | 85             | 1090.17               |
|         | 05/28/99 | 1175.17           | 98.4           | 1076.77               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM310   | 07/30/99 | 1175.17           | 100            | 1075.17               |
|         | 11/30/99 | 1175.17           | 98.45          | 1076.72               |
|         | 12/16/99 | 1175.17           | 76.17          | 1099                  |
|         | 02/16/00 | 1175.17           | 100.8          | 1074.37               |
|         | 04/25/00 | 1175.17           | 102.28         | 1072.89               |
|         | 07/15/00 | 1175.17           | 101.78         | 1073.39               |
|         | 10/09/00 | 1175.17           | 104.2          | 1070.97               |
|         | 12/01/00 | 1175.17           | 107.68         | 1067.49               |
| DM311   | 01/16/95 | 1173.36           | 72.8           | 1100.56               |
|         | 02/14/95 | 1173.36           | 72.49          | 1100.87               |
|         | 03/22/95 | 1173.36           | 75.09          | 1098.27               |
|         | 04/29/95 | 1173.36           | 76             | 1097.36               |
|         | 05/12/95 | 1173.36           | 75.1           | 1098.26               |
|         | 06/16/95 | 1173.36           | 62.23          | 1111.13               |
|         | 07/12/95 | 1173.36           | 78.43          | 1094.93               |
|         | 07/25/95 | 1173.36           | 73.87          | 1099.49               |
|         | 08/30/95 | 1173.36           | 74.7           | 1098.66               |
|         | 09/30/95 | 1173.36           | 73.7           | 1099.66               |
|         | 10/30/95 | 1173.36           | 73.21          | 1100.15               |
|         | 11/10/95 | 1173.36           | 75.04          | 1098.32               |
|         | 12/05/95 | 1173.36           | 74             | 1099.36               |
|         | 12/28/95 | 1173.36           | 60.2           | 1113.16               |
|         | 01/31/96 | 1173.36           | 75.5           | 1097.86               |
|         | 02/23/96 | 1173.36           | 74.09          | 1099.27               |
|         | 03/26/96 | 1173.36           | 71.3           | 1102.06               |
|         | 04/10/96 | 1173.36           | 73.38          | 1099.98               |
|         | 05/03/96 | 1173.36           | 77.22          | 1096.14               |
|         | 05/23/96 | 1173.36           | 74.3           | 1099.06               |
|         | 06/18/96 | 1173.36           | 85.9           | 1087.46               |
|         | 07/03/96 | 1173.36           | 86.05          | 1087.31               |
|         | 08/07/96 | 1173.36           | 74.2           | 1099.16               |
|         | 09/25/96 | 1173.36           | 74.1           | 1099.26               |
|         | 10/09/96 | 1173.36           | 83.6           | 1089.76               |
|         | 11/01/96 | 1173.36           | 77.12          | 1096.24               |
|         | 11/21/96 | 1173.36           | 77             | 1096.36               |
|         | 12/31/96 | 1173.36           | 71.7           | 1101.66               |
|         | 01/28/97 | 1173.36           | 78.45          | 1094.91               |
|         | 02/24/97 | 1173.36           | 84.75          | 1088.61               |
|         | 03/31/97 | 1173.36           | 78.6           | 1094.76               |
|         | 04/03/97 | 1173.36           | 75.05          | 1098.31               |
|         | 04/23/97 | 1173.36           | 80.61          | 1092.75               |
|         | 05/30/97 | 1173.36           | 78.9           | 1094.46               |
|         | 06/30/97 | 1173.36           | 84.17          | 1089.19               |
|         | 07/31/97 | 1173.36           | 80.65          | 1092.71               |
|         | 08/29/97 | 1173.36           | 77.32          | 1096.04               |
|         | 09/30/97 | 1173.36           | 90.5           | 1082.86               |
|         | 10/29/97 | 1173.36           | 78.82          | 1094.54               |
|         | 10/31/97 | 1173.36           | 77.45          | 1095.91               |
|         | 12/01/97 | 1173.36           | 75.05          | 1098.31               |
|         | 12/31/97 | 1173.36           | 89             | 1084.36               |
|         | 03/30/98 | 1173.36           | 76.26          | 1097.1                |
|         | 06/09/98 | 1173.36           | 79.17          | 1094.19               |
|         | 08/27/98 | 1173.36           | 77.9           | 1095.46               |
|         | 10/30/98 | 1173.36           | 67.8           | 1105.56               |
|         | 11/30/98 | 1173.36           | 67.85          | 1105.51               |
|         | 12/06/98 | 1173.36           | 76.34          | 1097.02               |
|         | 01/04/99 | 1173.36           | 78.78          | 1094.58               |
|         | 01/30/99 | 1173.36           | 88.25          | 1085.11               |
|         | 02/26/99 | 1173.36           | 78.85          | 1094.51               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM311   | 03/31/99 | 1173.36           | 79.46          | 1093.9                |
|         | 05/28/99 | 1173.36           | 82.35          | 1091.01               |
|         | 07/30/99 | 1173.36           | 81.35          | 1092.01               |
|         | 11/30/99 | 1173.36           | 97.75          | 1075.61               |
|         | 12/16/99 | 1173.36           | 97.66          | 1075.7                |
|         | 02/16/00 | 1173.36           | 97.91          | 1075.45               |
|         | 04/25/00 | 1173.36           | 103.08         | 1070.28               |
|         | 07/15/00 | 1173.36           | 103.31         | 1070.05               |
|         | 10/09/00 | 1173.36           | 103.37         | 1069.99               |
|         | 12/01/00 | 1173.36           | 103.44         | 1069.92               |
| DM312   | 01/16/95 | 1171.41           | 75             | 1096.41               |
|         | 02/14/95 | 1171.41           | 74             | 1097.41               |
|         | 03/22/95 | 1171.41           | 74.95          | 1096.46               |
|         | 04/29/95 | 1171.41           | 74.98          | 1096.43               |
|         | 05/12/95 | 1171.41           | 74.84          | 1096.57               |
|         | 06/16/95 | 1171.41           | 75             | 1096.41               |
|         | 07/12/95 | 1171.41           | 74.95          | 1096.46               |
|         | 07/25/95 | 1171.41           | 77.95          | 1093.46               |
|         | 08/30/95 | 1171.41           | 74.85          | 1096.56               |
|         | 09/30/95 | 1171.41           | 93.15          | 1078.26               |
|         | 10/30/95 | 1171.41           | 93.12          | 1078.29               |
|         | 11/10/95 | 1171.41           | 93.08          | 1078.33               |
|         | 12/28/95 | 1171.41           | 57.92          | 1113.49               |
|         | 01/31/96 | 1171.41           | 79.43          | 1091.98               |
|         | 02/23/96 | 1171.41           | 59.3           | 1112.11               |
|         | 03/26/96 | 1171.41           | 59.75          | 1111.66               |
|         | 04/10/96 | 1171.41           | 60.1           | 1111.31               |
|         | 04/30/96 | 1171.41           | 98.7           | 1072.71               |
|         | 05/31/96 | 1171.41           | 61.11          | 1110.3                |
|         | 06/18/96 | 1171.41           | 61.4           | 1110.01               |
|         | 07/03/96 | 1171.41           | 66.1           | 1105.31               |
|         | 08/07/96 | 1171.41           | 61.65          | 1109.76               |
|         | 09/25/96 | 1171.41           | 61.76          | 1109.65               |
|         | 10/09/96 | 1171.41           | 62.2           | 1109.21               |
|         | 10/24/96 | 1171.41           | 92.92          | 1078.49               |
|         | 11/21/96 | 1171.41           | 62.4           | 1109.01               |
|         | 12/27/96 | 1171.41           | 57.28          | 1114.13               |
|         | 01/28/97 | 1171.41           | 62.55          | 1108.86               |
|         | 02/24/97 | 1171.41           | 62.85          | 1108.56               |
|         | 03/31/97 | 1171.41           | 63.15          | 1108.26               |
|         | 04/03/97 | 1171.41           | 63.17          | 1108.24               |
|         | 04/17/97 | 1171.41           | 92.9           | 1078.51               |
|         | 05/30/97 | 1171.41           | 63.4           | 1108.01               |
|         | 06/30/97 | 1171.41           | 63.55          | 1107.86               |
|         | 07/31/97 | 1171.41           | 63.98          | 1107.43               |
|         | 08/29/97 | 1171.41           | 63.45          | 1107.96               |
|         | 09/30/97 | 1171.41           | 63.6           | 1107.81               |
|         | 10/28/97 | 1171.41           | 93             | 1078.41               |
|         | 10/31/97 | 1171.41           | 63.75          | 1107.66               |
|         | 12/01/97 | 1171.41           | 63.7           | 1107.71               |
|         | 12/31/97 | 1171.41           | 62.95          | 1108.46               |
|         | 03/30/98 | 1171.41           | 63.54          | 1107.87               |
|         | 06/09/98 | 1171.41           | 64.06          | 1107.35               |
|         | 08/27/98 | 1171.41           | 64.61          | 1106.8                |
|         | 12/06/98 | 1171.41           | 64.16          | 1107.25               |
|         | 12/16/99 | 1171.41           | 65.64          | 1105.77               |
|         | 02/16/00 | 1171.41           | 65.86          | 1105.55               |
|         | 04/25/00 | 1171.41           | 71.44          | 1099.97               |
|         | 07/15/00 | 1171.41           | 71.44          | 1099.97               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM312     | 10/09/00 | 1171.41           | 72.2           | 1099.21               |
|           | 12/01/00 | 1171.41           | 102            | 1069.41               |
| DM313     | 01/16/95 | 1169.71           | 52.8           | 1116.91               |
|           | 02/14/95 | 1169.71           | 64.45          | 1105.26               |
|           | 03/22/95 | 1169.71           | 53.56          | 1116.15               |
|           | 04/29/95 | 1169.71           | 53.94          | 1115.77               |
|           | 05/12/95 | 1169.71           | 64.38          | 1105.33               |
|           | 06/16/95 | 1169.71           | 54.48          | 1115.23               |
|           | 07/12/95 | 1169.71           | 83.91          | 1085.8                |
|           | 07/25/95 | 1169.71           | 65.4           | 1104.31               |
|           | 08/30/95 | 1169.71           | 65.41          | 1104.3                |
|           | 09/30/95 | 1169.71           | 54.1           | 1115.61               |
|           | 10/30/95 | 1169.71           | 54.5           | 1115.21               |
|           | 11/10/95 | 1169.71           | 64.39          | 1105.32               |
|           | 12/05/95 | 1169.71           | 64.38          | 1105.33               |
|           | 12/28/95 | 1169.71           | 54.3           | 1115.41               |
|           | 01/31/96 | 1169.71           | 54.29          | 1115.42               |
|           | 02/23/96 | 1169.71           | 54.6           | 1115.11               |
|           | 03/26/96 | 1169.71           | 55             | 1114.71               |
|           | 04/17/96 | 1169.71           | 55.25          | 1114.46               |
|           | 04/24/96 | 1169.71           | 64.37          | 1105.34               |
|           | 05/31/96 | 1169.71           | 55.83          | 1113.88               |
|           | 06/18/96 | 1169.71           | 56.02          | 1113.69               |
|           | 07/03/96 | 1169.71           | 56.2           | 1113.51               |
|           | 08/07/96 | 1169.71           | 56.6           | 1113.11               |
|           | 09/25/96 | 1169.71           | 56.6           | 1113.11               |
|           | 10/09/96 | 1169.71           | 56.9           | 1112.81               |
|           | 10/22/96 | 1169.71           | 64.38          | 1105.33               |
|           | 11/21/96 | 1169.71           | 57.15          | 1112.56               |
|           | 12/27/96 | 1169.71           | 61.63          | 1108.08               |
|           | 01/28/97 | 1169.71           | 57.4           | 1112.31               |
|           | 02/24/97 | 1169.71           | 57.65          | 1112.06               |
|           | 03/31/97 | 1169.71           | 58             | 1111.71               |
|           | 04/03/97 | 1169.71           | 59.89          | 1109.82               |
|           | 04/17/97 | 1169.71           | 64.37          | 1105.34               |
|           | 05/30/97 | 1169.71           | 58.35          | 1111.36               |
|           | 06/30/97 | 1169.71           | 58.4           | 1111.31               |
|           | 07/31/97 | 1169.71           | 62             | 1107.71               |
|           | 08/29/97 | 1169.71           | 58.63          | 1111.08               |
|           | 09/30/97 | 1169.71           | 58.65          | 1111.06               |
|           | 10/22/97 | 1169.71           | 64.4           | 1105.31               |
|           | 10/31/97 | 1169.71           | 58.9           | 1110.81               |
|           | 12/01/97 | 1169.71           | 58.8           | 1110.91               |
|           | 12/31/97 | 1169.71           | 58.55          | 1111.16               |
|           | 03/30/98 | 1169.71           | 58.77          | 1110.94               |
|           | 06/09/98 | 1169.71           | 58.97          | 1110.74               |
|           | 08/27/98 | 1169.71           | 58.59          | 1111.12               |
|           | 12/06/98 | 1169.71           | 64.16          | 1105.55               |
|           | 12/16/99 | 1169.71           | 60.13          | 1109.58               |
|           | 02/16/00 | 1169.71           | 60.39          | 1109.32               |
|           | 04/25/00 | 1169.71           | 66.65          | 1103.06               |
|           | 07/15/00 | 1169.71           | 66.67          | 1103.04               |
|           | 10/09/00 | 1169.71           | 67.03          | 1102.68               |
|           | 12/01/00 | 1169.71           | 66.79          | 1102.92               |
| DM502-079 | 01/17/95 | 1158.13           | 57.68          | 1100.45               |
|           | 03/16/95 | 1158.13           | 58.22          | 1099.91               |
|           | 04/10/95 | 1158.13           | 58.24          | 1099.89               |
|           | 04/18/95 | 1158.13           | 58.26          | 1099.87               |
|           | 09/11/95 | 1158.13           | 57.31          | 1100.82               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM502-079 | 10/18/95 | 1158.13           | 61.23          | 1096.9                |
|           | 12/04/95 | 1158.13           | 57.74          | 1100.39               |
|           | 01/26/96 | 1158.13           | 58.34          | 1099.79               |
|           | 04/16/96 | 1158.13           | 58.94          | 1099.19               |
|           | 05/29/96 | 1158.13           | 59.06          | 1099.07               |
|           | 07/11/96 | 1158.13           | 59.27          | 1098.86               |
|           | 10/10/96 | 1158.13           | 59.71          | 1098.42               |
|           | 01/15/97 | 1158.13           | 60.5           | 1097.63               |
|           | 04/07/97 | 1158.13           | 61.34          | 1096.79               |
|           | 06/11/97 | 1158.13           | 61.44          | 1096.69               |
|           | 12/16/97 | 1158.13           | 60.5           | 1097.63               |
|           | 01/28/98 | 1158.13           | 60.97          | 1097.16               |
|           | 04/17/98 | 1158.13           | 61.23          | 1096.9                |
|           | 07/29/98 | 1158.13           | 61.18          | 1096.95               |
|           | 10/19/98 | 1158.13           | 60.54          | 1097.59               |
|           | 04/08/99 | 1158.13           | 62.32          | 1095.81               |
|           | 07/09/99 | 1158.13           | 62.87          | 1095.26               |
|           | 11/04/99 | 1158.13           | 62.33          | 1095.8                |
|           | 02/15/00 | 1158.13           | 63.1           | 1095.03               |
|           | 04/04/00 | 1158.13           | 63.37          | 1094.76               |
|           | 08/04/00 | 1158.13           | 63.83          | 1094.3                |
|           | 11/09/00 | 1158.13           | 63.56          | 1094.57               |
| DM502-099 | 01/15/97 | 1158.13           | 60.46          | 1097.67               |
|           | 04/07/97 | 1158.13           | 61.21          | 1096.92               |
|           | 06/11/97 | 1158.13           | 61.29          | 1096.84               |
|           | 12/16/97 | 1158.13           | 60.61          | 1097.52               |
|           | 01/28/98 | 1158.13           | 61.23          | 1096.9                |
|           | 04/17/98 | 1158.13           | 61.08          | 1097.05               |
|           | 07/29/98 | 1158.13           | 61.02          | 1097.11               |
|           | 10/19/98 | 1158.13           | 60.6           | 1097.53               |
|           | 04/08/99 | 1158.13           | 62.07          | 1096.06               |
|           | 07/09/99 | 1158.13           | 62.59          | 1095.54               |
|           | 11/04/99 | 1158.13           | 61.92          | 1096.21               |
|           | 02/15/00 | 1158.13           | 62.1           | 1096.03               |
|           | 04/04/00 | 1158.13           | 63.03          | 1095.1                |
|           | 08/04/00 | 1158.13           | 63.21          | 1094.92               |
|           | 11/09/00 | 1158.13           | 63.29          | 1094.84               |
| DM502-119 | 01/17/95 | 1158.13           | 57.7           | 1100.43               |
|           | 03/16/95 | 1158.13           | 58.26          | 1099.87               |
|           | 04/10/95 | 1158.13           | 58.15          | 1099.98               |
|           | 04/18/95 | 1158.13           | 58.22          | 1099.91               |
|           | 09/11/95 | 1158.13           | 57.35          | 1100.78               |
|           | 10/18/95 | 1158.13           | 58.01          | 1100.12               |
|           | 12/04/95 | 1158.13           | 57.7           | 1100.43               |
|           | 01/26/96 | 1158.13           | 58.22          | 1099.91               |
|           | 04/16/96 | 1158.13           | 59.08          | 1099.05               |
|           | 05/29/96 | 1158.13           | 59.05          | 1099.08               |
|           | 07/11/96 | 1158.13           | 58.99          | 1099.14               |
|           | 10/10/96 | 1158.13           | 59.69          | 1098.44               |
|           | 01/15/97 | 1158.13           | 60.58          | 1097.55               |
|           | 04/07/97 | 1158.13           | 61.3           | 1096.83               |
|           | 06/11/97 | 1158.13           | 61.49          | 1096.64               |
|           | 12/16/97 | 1158.13           | 60.53          | 1097.6                |
|           | 01/28/98 | 1158.13           | 61.07          | 1097.06               |
|           | 04/17/98 | 1158.13           | 61.28          | 1096.85               |
|           | 07/29/98 | 1158.13           | 61.24          | 1096.89               |
|           | 10/19/98 | 1158.13           | 60.57          | 1097.56               |
|           | 04/08/99 | 1158.13           | 62.32          | 1095.81               |
|           | 07/09/99 | 1158.13           | 62.84          | 1095.29               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM502-119 | 11/04/99 | 1158.13           | 62.37          | 1095.76               |
|           | 02/15/00 | 1158.13           | 63.18          | 1094.95               |
|           | 04/04/00 | 1158.13           | 63.42          | 1094.71               |
|           | 08/04/00 | 1158.13           | 63.84          | 1094.29               |
|           | 11/09/00 | 1158.13           | 63.59          | 1094.54               |
| DM502-161 | 01/17/95 | 1158.13           | 57.08          | 1101.05               |
|           | 03/16/95 | 1158.13           | 57.57          | 1100.56               |
|           | 04/10/95 | 1158.13           | 57.66          | 1100.47               |
|           | 04/18/95 | 1158.13           | 57.55          | 1100.58               |
|           | 09/11/95 | 1158.13           | 56.74          | 1101.39               |
|           | 10/18/95 | 1158.13           | 55.95          | 1102.18               |
|           | 12/04/95 | 1158.13           | 57.03          | 1101.1                |
|           | 01/26/96 | 1158.13           | 57.79          | 1100.34               |
|           | 04/16/96 | 1158.13           | 58.35          | 1099.78               |
|           | 05/29/96 | 1158.13           | 58.48          | 1099.65               |
|           | 07/11/96 | 1158.13           | 58.3           | 1099.83               |
|           | 10/10/96 | 1158.13           | 59.06          | 1099.07               |
|           | 01/15/97 | 1158.13           | 59.85          | 1098.28               |
|           | 04/07/97 | 1158.13           | 60.55          | 1097.58               |
|           | 06/11/97 | 1158.13           | 60.67          | 1097.46               |
|           | 12/16/97 | 1158.13           | 59.71          | 1098.42               |
|           | 01/28/98 | 1158.13           | 60.24          | 1097.89               |
|           | 04/17/98 | 1158.13           | 60.56          | 1097.57               |
|           | 07/29/98 | 1158.13           | 60.52          | 1097.61               |
|           | 10/19/98 | 1158.13           | 59.71          | 1098.42               |
|           | 04/08/99 | 1158.13           | 61.59          | 1096.54               |
|           | 07/09/99 | 1158.13           | 62.1           | 1096.03               |
|           | 11/04/99 | 1158.13           | 61.46          | 1096.67               |
|           | 02/15/00 | 1158.13           | 62.29          | 1095.84               |
|           | 04/04/00 | 1158.13           | 62.58          | 1095.55               |
|           | 08/04/00 | 1158.13           | 62.92          | 1095.21               |
|           | 11/09/00 | 1158.13           | 62.75          | 1095.38               |
| DM502-195 | 01/15/97 | 1158.13           | 59.64          | 1098.49               |
|           | 04/07/97 | 1158.13           | 60.49          | 1097.64               |
|           | 06/11/97 | 1158.13           | 60.56          | 1097.57               |
|           | 12/16/97 | 1158.13           | 59.54          | 1098.59               |
|           | 01/28/98 | 1158.13           | 60.12          | 1098.01               |
|           | 04/17/98 | 1158.13           | 60.45          | 1097.68               |
|           | 07/29/98 | 1158.13           | 60.39          | 1097.74               |
|           | 10/19/98 | 1158.13           | 59.57          | 1098.56               |
|           | 04/08/99 | 1158.13           | 61.45          | 1096.68               |
|           | 07/09/99 | 1158.13           | 62.38          | 1095.75               |
|           | 11/04/99 | 1158.13           | 61.38          | 1096.75               |
|           | 02/15/00 | 1158.13           | 62.15          | 1095.98               |
| DM502-240 | 04/04/00 | 1158.13           | 62.44          | 1095.69               |
|           | 08/04/00 | 1158.13           | 62.78          | 1095.35               |
|           | 11/09/00 | 1158.13           | 62.47          | 1095.66               |
|           | 01/17/95 | 1158.13           | 56.85          | 1101.28               |
|           | 03/16/95 | 1158.13           | 57.34          | 1100.79               |
| DM502-240 | 04/10/95 | 1158.13           | 57.48          | 1100.65               |
|           | 04/18/95 | 1158.13           | 57.34          | 1100.79               |
|           | 09/11/95 | 1158.13           | 56.6           | 1101.53               |
|           | 10/18/95 | 1158.13           | 53.75          | 1104.38               |
|           | 12/04/95 | 1158.13           | 56.85          | 1101.28               |
|           | 01/26/96 | 1158.13           | 57.4           | 1100.73               |
|           | 04/16/96 | 1158.13           | 58.19          | 1099.94               |
|           | 05/29/96 | 1158.13           | 58.29          | 1099.84               |
|           | 07/11/96 | 1158.13           | 58.08          | 1100.05               |
|           | 10/10/96 | 1158.13           | 58.83          | 1099.3                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM502-240 | 01/15/97 | 1158.13           | 59.6           | 1098.53               |
|           | 04/07/97 | 1158.13           | 60.42          | 1097.71               |
|           | 06/11/97 | 1158.13           | 60.5           | 1097.63               |
|           | 12/16/97 | 1158.13           | 59.58          | 1098.55               |
|           | 01/28/98 | 1158.13           | 60.08          | 1098.05               |
|           | 04/17/98 | 1158.13           | 60.38          | 1097.75               |
|           | 07/29/98 | 1158.13           | 60.32          | 1097.81               |
|           | 10/19/98 | 1158.13           | 59.52          | 1098.61               |
|           | 04/08/99 | 1158.13           | 61.42          | 1096.71               |
|           | 07/09/99 | 1158.13           | 61.91          | 1096.22               |
|           | 11/04/99 | 1158.13           | 61.19          | 1096.94               |
|           | 02/15/00 | 1158.13           | 62.1           | 1096.03               |
|           | 04/04/00 | 1158.13           | 62.43          | 1095.7                |
|           | 08/04/00 | 1158.13           | 62.72          | 1095.41               |
|           | 11/09/00 | 1158.13           | 62.32          | 1095.81               |
| DM502-280 | 01/15/97 | 1158.13           | 59.76          | 1098.37               |
|           | 04/07/97 | 1158.13           | 60.42          | 1097.71               |
|           | 06/11/97 | 1158.13           | 60.41          | 1097.72               |
|           | 12/16/97 | 1158.13           | 59.48          | 1098.65               |
|           | 01/28/98 | 1158.13           | 60.12          | 1098.01               |
|           | 04/17/98 | 1158.13           | 60.4           | 1097.73               |
|           | 07/29/98 | 1158.13           | 60.36          | 1097.77               |
|           | 10/19/98 | 1158.13           | 59.45          | 1098.68               |
|           | 04/08/99 | 1158.13           | 61.64          | 1096.49               |
|           | 07/09/99 | 1158.13           | 61.96          | 1096.17               |
|           | 11/04/99 | 1158.13           | 61.1           | 1097.03               |
|           | 02/15/00 | 1158.13           | 62.15          | 1095.98               |
|           | 04/04/00 | 1158.13           | 62.51          | 1095.62               |
|           | 08/04/00 | 1158.13           | 62.7           | 1095.43               |
|           | 11/09/00 | 1158.13           | 62.33          | 1095.8                |
| DM502-335 | 01/17/95 | 1158.13           | 56.88          | 1101.25               |
|           | 03/16/95 | 1158.13           | 57.47          | 1100.66               |
|           | 04/10/95 | 1158.13           | 58.39          | 1099.74               |
|           | 04/18/95 | 1158.13           | 57.32          | 1100.81               |
|           | 09/11/95 | 1158.13           | 56.71          | 1101.42               |
|           | 10/18/95 | 1158.13           | 51.98          | 1106.15               |
|           | 12/04/95 | 1158.13           | 56.94          | 1101.19               |
|           | 01/26/96 | 1158.13           | 57.64          | 1100.49               |
|           | 04/16/96 | 1158.13           | 58.6           | 1099.53               |
|           | 05/29/96 | 1158.13           | 58.36          | 1099.77               |
|           | 07/11/96 | 1158.13           | 58.33          | 1099.8                |
|           | 10/10/96 | 1158.13           | 58.88          | 1099.25               |
|           | 01/15/97 | 1158.13           | 59.65          | 1098.48               |
|           | 04/07/97 | 1158.13           | 60.41          | 1097.72               |
|           | 06/11/97 | 1158.13           | 60.36          | 1097.77               |
|           | 12/16/97 | 1158.13           | 59.45          | 1098.68               |
|           | 01/28/98 | 1158.13           | 60.15          | 1097.98               |
|           | 04/17/98 | 1158.13           | 60.39          | 1097.74               |
|           | 07/29/98 | 1158.13           | 60.32          | 1097.81               |
|           | 10/19/98 | 1158.13           | 59.42          | 1098.71               |
|           | 04/08/99 | 1158.13           | 61.56          | 1096.57               |
|           | 07/09/99 | 1158.13           | 61.88          | 1096.25               |
|           | 11/04/99 | 1158.13           | 61.08          | 1097.05               |
|           | 02/15/00 | 1158.13           | 62.11          | 1096.02               |
|           | 04/04/00 | 1158.13           | 62.56          | 1095.57               |
|           | 08/04/00 | 1158.13           | 62.66          | 1095.47               |
|           | 11/09/00 | 1158.13           | 62.34          | 1095.79               |
| DM503     | 01/10/95 | 1162.28           | 57.5           | 1104.78               |
|           | 02/27/95 | 1162.28           | 59.86          | 1102.42               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM503     | 03/14/95 | 1162.28           | 59.91          | 1102.37               |
|           | 04/06/95 | 1162.28           | 60.29          | 1101.99               |
|           | 04/10/95 | 1162.28           | 60.34          | 1101.94               |
|           | 05/02/95 | 1162.28           | 60.45          | 1101.83               |
|           | 07/10/95 | 1162.28           | 60.5           | 1101.78               |
|           | 08/29/95 | 1162.28           | 59.9           | 1102.38               |
|           | 09/14/95 | 1162.28           | 59.8           | 1102.48               |
|           | 10/16/95 | 1162.28           | 59.8           | 1102.48               |
|           | 10/27/95 | 1162.28           | 59.78          | 1102.5                |
|           | 12/21/95 | 1162.28           | 59.82          | 1102.46               |
|           | 01/20/96 | 1162.28           | 60.44          | 1101.84               |
|           | 02/08/96 | 1162.28           | 63.4           | 1098.88               |
|           | 03/26/96 | 1162.28           | 60.61          | 1101.67               |
|           | 04/10/96 | 1162.28           | 62.93          | 1099.35               |
|           | 04/24/96 | 1162.28           | 60.97          | 1101.31               |
|           | 06/18/96 | 1162.28           | 62.48          | 1099.8                |
|           | 07/01/96 | 1162.28           | 61.58          | 1100.7                |
|           | 10/03/96 | 1162.28           | 61.57          | 1100.71               |
|           | 10/18/96 | 1162.28           | 61.65          | 1100.63               |
|           | 11/05/96 | 1162.28           | 61.65          | 1100.63               |
|           | 01/09/97 | 1162.31           | 61.59          | 1100.72               |
|           | 04/02/97 | 1162.28           | 63.28          | 1099                  |
|           | 04/16/97 | 1162.31           | 63.38          | 1098.93               |
|           | 07/24/97 | 1162.31           | 83.54          | 1078.77               |
|           | 10/06/97 | 1162.31           | 63.68          | 1098.63               |
|           | 10/20/97 | 1162.31           | 63.46          | 1098.85               |
|           | 01/26/98 | 1162.31           | 64.38          | 1097.93               |
|           | 04/08/98 | 1162.31           | 64.93          | 1097.38               |
|           | 08/06/98 | 1162.31           | 64.76          | 1097.55               |
|           | 10/09/98 | 1162.31           | 63.99          | 1098.32               |
|           | 11/12/98 | 1162.31           | 63.95          | 1098.36               |
|           | 04/08/99 | 1162.31           | 65.48          | 1096.83               |
|           | 07/08/99 | 1162.31           | 66.11          | 1096.2                |
|           | 10/11/99 | 1162.31           | 62.15          | 1100.16               |
|           | 12/21/99 | 1162.31           | 64.8           | 1097.51               |
|           | 02/07/00 | 1162.31           | 65.72          | 1096.59               |
|           | 04/05/00 | 1162.31           | 63.81          | 1098.5                |
|           | 07/15/00 | 1162.31           | 66.17          | 1096.14               |
|           | 10/11/00 | 1162.31           | 66.04          | 1096.27               |
|           | 12/05/00 | 1162.31           | 61.93          | 1100.38               |
| DM601-025 | 01/17/97 | 1209.62           | 18.93          | 1190.69               |
|           | 02/03/97 | 1209.62           | 18.74          | 1190.88               |
|           | 02/19/97 | 1209.62           | 19.73          | 1189.89               |
|           | 03/25/97 | 1209.62           | 18.41          | 1191.21               |
|           | 04/09/97 | 1209.62           | 18.42          | 1191.2                |
|           | 05/26/97 | 1209.62           | 18.49          | 1191.13               |
|           | 06/18/97 | 1209.62           | 18.47          | 1191.15               |
|           | 07/30/97 | 1209.62           | 18.53          | 1191.09               |
|           | 08/19/97 | 1209.62           | 17.23          | 1192.39               |
|           | 08/27/97 | 1209.62           | 17.13          | 1192.49               |
|           | 09/30/97 | 1209.62           | 17.11          | 1192.51               |
|           | 10/14/97 | 1209.62           | 17.18          | 1192.44               |
|           | 11/28/97 | 1209.62           | -999           | Dry                   |
|           | 01/27/98 | 1209.62           | -999           | Dry                   |
|           | 04/28/98 | 1209.62           | -999           | Dry                   |
|           | 04/07/99 | 1209.62           | 7.538          | 1202.082              |
|           | 07/08/99 | 1209.62           | 7.8            | 1201.82               |
|           | 10/29/99 | 1209.62           | 1.25           | 1208.37               |
|           | 02/16/00 | 1209.62           | 1.67           | 1207.95               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM601-025 | 04/08/00 | 1209.62           | 0.72           | 1208.9                |
| DM601-040 | 01/11/95 | 1209.62           | 32.06          | 1177.56               |
|           | 02/07/95 | 1209.62           | 32.89          | 1176.73               |
|           | 02/28/95 | 1209.62           | 32.44          | 1177.18               |
|           | 03/16/95 | 1209.62           | 32.52          | 1177.1                |
|           | 04/04/95 | 1209.62           | 32.13          | 1177.49               |
|           | 05/01/95 | 1209.62           | 33.04          | 1176.58               |
|           | 06/15/95 | 1209.62           | 33.46          | 1176.16               |
|           | 07/19/95 | 1209.62           | 32.19          | 1177.43               |
|           | 08/02/95 | 1209.62           | 33.43          | 1176.19               |
|           | 09/28/95 | 1209.62           | 33.09          | 1176.53               |
|           | 10/23/95 | 1209.62           | 33             | 1176.62               |
|           | 11/30/95 | 1209.62           | 33.43          | 1176.19               |
|           | 12/26/95 | 1209.62           | 32.17          | 1177.45               |
|           | 01/25/96 | 1209.62           | 33.22          | 1176.4                |
|           | 02/07/96 | 1209.62           | 33.82          | 1175.8                |
|           | 03/23/96 | 1209.62           | 33.59          | 1176.03               |
|           | 04/18/96 | 1209.62           | 33.76          | 1175.86               |
|           | 05/30/96 | 1209.62           | 34.86          | 1174.76               |
|           | 06/12/96 | 1209.62           | 34.55          | 1175.07               |
|           | 07/09/96 | 1209.62           | 34.57          | 1175.05               |
|           | 07/24/96 | 1209.62           | 34.29          | 1175.33               |
|           | 08/18/96 | 1209.62           | 34.66          | 1174.96               |
|           | 09/10/96 | 1209.62           | 35.03          | 1174.59               |
|           | 10/16/96 | 1209.62           | 34.92          | 1174.7                |
|           | 11/29/96 | 1209.62           | 34.64          | 1174.98               |
|           | 12/31/96 | 1209.62           | 34.67          | 1174.95               |
|           | 01/17/97 | 1209.62           | 34.45          | 1175.17               |
|           | 02/03/97 | 1209.62           | 34.8           | 1174.82               |
|           | 02/19/97 | 1209.62           | 36.05          | 1173.57               |
|           | 03/25/97 | 1209.62           | 34.44          | 1175.18               |
|           | 04/09/97 | 1209.62           | 34.52          | 1175.1                |
|           | 05/26/97 | 1209.62           | 35.19          | 1174.43               |
|           | 06/18/97 | 1209.62           | 34.82          | 1174.8                |
|           | 07/30/97 | 1209.62           | 36.01          | 1173.61               |
|           | 08/19/97 | 1209.62           | 36.48          | 1173.14               |
|           | 08/27/97 | 1209.62           | 36.33          | 1173.29               |
|           | 09/30/97 | 1209.62           | 36.6           | 1173.02               |
|           | 10/14/97 | 1209.62           | 36.94          | 1172.68               |
|           | 11/28/97 | 1209.62           | 37.4           | 1172.22               |
|           | 12/18/97 | 1209.62           | 37.57          | 1172.05               |
|           | 01/27/98 | 1209.62           | 36.5           | 1173.12               |
|           | 04/28/98 | 1209.62           | 37.28          | 1172.34               |
|           | 08/06/98 | 1209.62           | 35.72          | 1173.9                |
|           | 10/14/98 | 1209.62           | 41.33          | 1168.29               |
|           | 04/07/99 | 1209.62           | 37.72          | 1171.9                |
|           | 07/08/99 | 1209.62           | 37.86          | 1171.76               |
|           | 10/29/99 | 1209.62           | 39.95          | 1169.67               |
|           | 02/16/00 | 1209.62           | 39.87          | 1169.75               |
|           | 04/08/00 | 1209.62           | 39.83          | 1169.79               |
| DM601-070 | 01/17/97 | 1209.62           | 34.78          | 1174.84               |
|           | 02/03/97 | 1209.62           | 34.3           | 1175.32               |
|           | 02/19/97 | 1209.62           | 35.54          | 1174.08               |
|           | 03/25/97 | 1209.62           | 34.24          | 1175.38               |
|           | 04/09/97 | 1209.62           | 33.93          | 1175.69               |
|           | 05/26/97 | 1209.62           | 34.72          | 1174.9                |
|           | 06/18/97 | 1209.62           | 34.84          | 1174.78               |
|           | 07/30/97 | 1209.62           | 42.64          | 1166.98               |
|           | 08/19/97 | 1209.62           | 35.75          | 1173.87               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM601-070 | 08/27/97 | 1209.62           | 35.79          | 1173.83               |
|           | 09/30/97 | 1209.62           | 36.34          | 1173.28               |
|           | 10/14/97 | 1209.62           | 36.59          | 1173.03               |
|           | 11/28/97 | 1209.62           | 36.92          | 1172.7                |
|           | 12/18/97 | 1209.62           | 36.92          | 1172.7                |
|           | 01/27/98 | 1209.62           | 36.05          | 1173.57               |
|           | 04/28/98 | 1209.62           | 36.45          | 1173.17               |
|           | 08/06/98 | 1209.62           | 37.16          | 1172.46               |
|           | 10/14/98 | 1209.62           | 38.41          | 1171.21               |
|           | 04/07/99 | 1209.62           | 37.25          | 1172.37               |
|           | 07/08/99 | 1209.62           | 35.75          | 1173.87               |
|           | 10/29/99 | 1209.62           | 39.26          | 1170.36               |
|           | 02/16/00 | 1209.62           | 40.15          | 1169.47               |
|           | 04/08/00 | 1209.62           | 40.28          | 1169.34               |
|           | 08/23/00 | 1209.62           | 41.01          | 1168.61               |
|           | 11/15/00 | 1209.62           | 40.24          | 1169.38               |
| DM601-085 | 01/11/95 | 1209.62           | 31.24          | 1178.38               |
|           | 02/07/95 | 1209.62           | 32.03          | 1177.59               |
|           | 02/28/95 | 1209.62           | 31.62          | 1178                  |
|           | 03/16/95 | 1209.62           | 31.63          | 1177.99               |
|           | 04/04/95 | 1209.62           | 31.59          | 1178.03               |
|           | 05/01/95 | 1209.62           | 32.22          | 1177.4                |
|           | 06/15/95 | 1209.62           | 32.18          | 1177.44               |
|           | 07/19/95 | 1209.62           | 31.68          | 1177.94               |
|           | 08/02/95 | 1209.62           | 32.82          | 1176.8                |
|           | 09/28/95 | 1209.62           | 32.33          | 1177.29               |
|           | 10/23/95 | 1209.62           | 32.5           | 1177.12               |
|           | 11/30/95 | 1209.62           | 32.7           | 1176.92               |
|           | 12/26/95 | 1209.62           | 32.86          | 1176.76               |
|           | 01/25/96 | 1209.62           | 32.83          | 1176.79               |
|           | 02/07/96 | 1209.62           | 33.11          | 1176.51               |
|           | 03/23/96 | 1209.62           | 32.73          | 1176.89               |
|           | 04/18/96 | 1209.62           | 33.42          | 1176.2                |
|           | 05/30/96 | 1209.62           | 34.11          | 1175.51               |
|           | 06/12/96 | 1209.62           | 33.71          | 1175.91               |
|           | 07/09/96 | 1209.62           | 33.72          | 1175.9                |
|           | 07/24/96 | 1209.62           | 34.14          | 1175.48               |
|           | 08/18/96 | 1209.62           | 33.7           | 1175.92               |
|           | 09/10/96 | 1209.62           | 34.39          | 1175.23               |
|           | 10/16/96 | 1209.62           | 34.15          | 1175.47               |
|           | 11/29/96 | 1209.62           | 33.69          | 1175.93               |
|           | 12/31/96 | 1209.62           | 33.76          | 1175.86               |
|           | 01/17/97 | 1209.62           | 34.31          | 1175.31               |
|           | 02/03/97 | 1209.62           | 34.05          | 1175.57               |
|           | 02/19/97 | 1209.62           | 35.24          | 1174.38               |
|           | 03/25/97 | 1209.62           | 33.91          | 1175.71               |
|           | 04/09/97 | 1209.62           | 33.58          | 1176.04               |
|           | 05/26/97 | 1209.62           | 34.34          | 1175.28               |
|           | 06/18/97 | 1209.62           | 34.45          | 1175.17               |
|           | 07/30/97 | 1209.62           | 35.18          | 1174.44               |
|           | 08/19/97 | 1209.62           | 35.16          | 1174.46               |
|           | 08/27/97 | 1209.62           | 35.23          | 1174.39               |
|           | 09/30/97 | 1209.62           | 35.63          | 1173.99               |
|           | 10/14/97 | 1209.62           | 35.85          | 1173.77               |
|           | 11/28/97 | 1209.62           | 36.3           | 1173.32               |
|           | 12/18/97 | 1209.62           | 36.25          | 1173.37               |
|           | 01/27/98 | 1209.62           | 35.56          | 1174.06               |
|           | 04/28/98 | 1209.62           | 35.81          | 1173.81               |
|           | 08/06/98 | 1209.62           | 36.42          | 1173.2                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM601-085 | 10/14/98 | 1209.62           | 39.49          | 1170.13               |
|           | 04/07/99 | 1209.62           | 36.6           | 1173.02               |
|           | 07/08/99 | 1209.62           | 34.24          | 1175.38               |
|           | 10/29/99 | 1209.62           | 39.49          | 1170.13               |
|           | 02/16/00 | 1209.62           | 39.29          | 1170.33               |
|           | 04/08/00 | 1209.62           | 41.28          | 1168.34               |
|           | 08/23/00 | 1209.62           | 40.21          | 1169.41               |
|           | 11/15/00 | 1209.62           | 39.62          | 1170                  |
| DM601-115 | 01/17/97 | 1209.62           | 34.1           | 1175.52               |
|           | 02/03/97 | 1209.62           | 33.82          | 1175.8                |
|           | 02/19/97 | 1209.62           | 35.05          | 1174.57               |
|           | 03/25/97 | 1209.62           | 33.68          | 1175.94               |
|           | 04/09/97 | 1209.62           | 33.48          | 1176.14               |
|           | 05/26/97 | 1209.62           | 34.21          | 1175.41               |
|           | 06/18/97 | 1209.62           | 34.27          | 1175.35               |
|           | 07/30/97 | 1209.62           | 34.97          | 1174.65               |
|           | 08/19/97 | 1209.62           | 35.01          | 1174.61               |
|           | 08/27/97 | 1209.62           | 34.99          | 1174.63               |
|           | 09/30/97 | 1209.62           | 35.39          | 1174.23               |
|           | 10/14/97 | 1209.62           | 35.56          | 1174.06               |
|           | 11/28/97 | 1209.62           | 36.04          | 1173.58               |
|           | 12/18/97 | 1209.62           | 35.97          | 1173.65               |
|           | 01/27/98 | 1209.62           | 35.33          | 1174.29               |
|           | 04/28/98 | 1209.62           | 35.58          | 1174.04               |
|           | 08/06/98 | 1209.62           | 36             | 1173.62               |
|           | 10/14/98 | 1209.62           | 36.92          | 1172.7                |
|           | 04/07/99 | 1209.62           | 36.35          | 1173.27               |
|           | 07/08/99 | 1209.62           | 36.07          | 1173.55               |
|           | 10/29/99 | 1209.62           | 38.3           | 1171.32               |
|           | 02/16/00 | 1209.62           | 38.95          | 1170.67               |
|           | 04/08/00 | 1209.62           | 39.08          | 1170.54               |
|           | 08/23/00 | 1209.62           | 40.04          | 1169.58               |
|           | 11/15/00 | 1209.62           | 39.27          | 1170.35               |
| DM601-135 | 01/11/95 | 1209.62           | 30.8           | 1178.82               |
|           | 02/07/95 | 1209.62           | 20.4           | 1189.22               |
|           | 02/28/95 | 1209.62           | 31.4           | 1178.22               |
|           | 03/16/95 | 1209.62           | 31.29          | 1178.33               |
|           | 04/04/95 | 1209.62           | 31.26          | 1178.36               |
|           | 05/01/95 | 1209.62           | 31.9           | 1177.72               |
|           | 06/15/95 | 1209.62           | 31.96          | 1177.66               |
|           | 07/19/95 | 1209.62           | 31.24          | 1178.38               |
|           | 08/02/95 | 1209.62           | 32.58          | 1177.04               |
|           | 09/28/95 | 1209.62           | 32             | 1177.62               |
|           | 10/23/95 | 1209.62           | 32.25          | 1177.37               |
|           | 11/30/95 | 1209.62           | 32.41          | 1177.21               |
|           | 12/26/95 | 1209.62           | 32.48          | 1177.14               |
|           | 01/25/96 | 1209.62           | 32.55          | 1177.07               |
|           | 02/07/96 | 1209.62           | 32.66          | 1176.96               |
|           | 03/23/96 | 1209.62           | 32.75          | 1176.87               |
|           | 04/18/96 | 1209.62           | 33.33          | 1176.29               |
|           | 05/30/96 | 1209.62           | 33.8           | 1175.82               |
|           | 06/12/96 | 1209.62           | 33.46          | 1176.16               |
|           | 07/09/96 | 1209.62           | 33.52          | 1176.1                |
|           | 07/24/96 | 1209.62           | 33.83          | 1175.79               |
|           | 08/18/96 | 1209.62           | 33.44          | 1176.18               |
|           | 09/10/96 | 1209.62           | 34.05          | 1175.57               |
|           | 10/16/96 | 1209.62           | 33.73          | 1175.89               |
|           | 11/29/96 | 1209.62           | 33.37          | 1176.25               |
|           | 12/31/96 | 1209.62           | 33.53          | 1176.09               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM601-135 | 01/17/97 | 1209.62           | 33.88          | 1175.74               |
|           | 02/03/97 | 1209.62           | 33.66          | 1175.96               |
|           | 02/19/97 | 1209.62           | 34.89          | 1174.73               |
|           | 03/25/97 | 1209.62           | 33.63          | 1175.99               |
|           | 04/09/97 | 1209.62           | 33.36          | 1176.26               |
|           | 05/26/97 | 1209.62           | 34.11          | 1175.51               |
|           | 06/18/97 | 1209.62           | 34.16          | 1175.46               |
|           | 07/30/97 | 1209.62           | 34.81          | 1174.81               |
|           | 08/19/97 | 1209.62           | 34.9           | 1174.72               |
|           | 08/27/97 | 1209.62           | 34.86          | 1174.76               |
|           | 09/30/97 | 1209.62           | 35.2           | 1174.42               |
|           | 10/14/97 | 1209.62           | 34.45          | 1175.17               |
|           | 11/28/97 | 1209.62           | 35.61          | 1174.01               |
|           | 12/18/97 | 1209.62           | 35.78          | 1173.84               |
|           | 01/27/98 | 1209.62           | 35.2           | 1174.42               |
|           | 04/28/98 | 1209.62           | 35.34          | 1174.28               |
|           | 08/06/98 | 1209.62           | 35.87          | 1173.75               |
|           | 10/14/98 | 1209.62           | 36.72          | 1172.9                |
|           | 04/07/99 | 1209.62           | 36.08          | 1173.54               |
|           | 07/08/99 | 1209.62           | 34.32          | 1175.3                |
|           | 10/29/99 | 1209.62           | 37.98          | 1171.64               |
| DM601-175 | 02/16/00 | 1209.62           | 38.66          | 1170.96               |
|           | 04/08/00 | 1209.62           | 38.54          | 1171.08               |
|           | 08/23/00 | 1209.62           | 39.79          | 1169.83               |
|           | 11/15/00 | 1209.62           | 39.06          | 1170.56               |
|           | 01/17/97 | 1209.62           | 33.89          | 1175.73               |
|           | 02/03/97 | 1209.62           | 33.67          | 1175.95               |
|           | 02/19/97 | 1209.62           | 34.81          | 1174.81               |
|           | 03/25/97 | 1209.62           | 33.55          | 1176.07               |
|           | 04/09/97 | 1209.62           | 33.41          | 1176.21               |
|           | 05/26/97 | 1209.62           | 33.98          | 1175.64               |
|           | 06/18/97 | 1209.62           | 36.04          | 1173.58               |
|           | 07/30/97 | 1209.62           | 34.71          | 1174.91               |
|           | 08/19/97 | 1209.62           | 34.68          | 1174.94               |
|           | 08/27/97 | 1209.62           | 34.74          | 1174.88               |
|           | 09/30/97 | 1209.62           | 35.09          | 1174.53               |
|           | 10/14/97 | 1209.62           | 35.28          | 1174.34               |
|           | 11/28/97 | 1209.62           | 35.73          | 1173.89               |
|           | 12/18/97 | 1209.62           | 35.67          | 1173.95               |
|           | 01/27/98 | 1209.62           | 35.16          | 1174.46               |
|           | 04/28/98 | 1209.62           | 35.28          | 1174.34               |
|           | 08/06/98 | 1209.62           | 35.82          | 1173.8                |
| DM601-200 | 10/14/98 | 1209.62           | 36.9           | 1172.72               |
|           | 04/07/99 | 1209.62           | 35.74          | 1173.88               |
|           | 07/08/99 | 1209.62           | 33.13          | 1176.49               |
|           | 10/29/99 | 1209.62           | 37.99          | 1171.63               |
|           | 02/16/00 | 1209.62           | 38.52          | 1171.1                |
|           | 04/08/00 | 1209.62           | 38.54          | 1171.08               |
|           | 08/23/00 | 1209.62           | 39.67          | 1169.95               |
|           | 11/15/00 | 1209.62           | 38.91          | 1170.71               |
|           | 01/11/95 | 1209.62           | 30.97          | 1178.65               |
|           | 02/28/95 | 1209.62           | 31.45          | 1178.17               |
|           | 03/16/95 | 1209.62           | 31.35          | 1178.27               |
|           | 04/04/95 | 1209.62           | 31.45          | 1178.17               |
|           | 05/01/95 | 1209.62           | 32.03          | 1177.59               |
|           | 06/15/95 | 1209.62           | 32.04          | 1177.58               |
|           | 07/19/95 | 1209.62           | 31.5           | 1178.12               |
|           | 08/02/95 | 1209.62           | 32.51          | 1177.11               |
|           | 09/23/95 | 1209.62           | 32.17          | 1177.45               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM601-200 | 10/23/95 | 1209.62           | 32.43          | 1177.19               |
|           | 11/30/95 | 1209.62           | 32.5           | 1177.12               |
|           | 12/26/95 | 1209.62           | 32.67          | 1176.95               |
|           | 01/25/96 | 1209.62           | 32.7           | 1176.92               |
|           | 02/07/96 | 1209.62           | 32.83          | 1176.79               |
|           | 03/23/96 | 1209.62           | 32.97          | 1176.65               |
|           | 04/18/96 | 1209.62           | 33.42          | 1176.2                |
|           | 05/30/96 | 1209.62           | 33.89          | 1175.73               |
|           | 06/12/96 | 1209.62           | 33.5           | 1176.12               |
|           | 07/09/96 | 1209.62           | 33.58          | 1176.04               |
|           | 07/24/96 | 1209.62           | 33.94          | 1175.68               |
|           | 08/18/96 | 1209.62           | 33.59          | 1176.03               |
|           | 09/10/96 | 1209.62           | 33.97          | 1175.65               |
|           | 10/16/96 | 1209.62           | 33.79          | 1175.83               |
|           | 11/29/96 | 1209.62           | 33.33          | 1176.29               |
|           | 12/31/96 | 1209.62           | 33.32          | 1176.3                |
|           | 01/17/97 | 1209.62           | 33.59          | 1176.03               |
|           | 02/03/97 | 1209.62           | 33.44          | 1176.18               |
|           | 02/19/97 | 1209.62           | 34.5           | 1175.12               |
|           | 03/25/97 | 1209.62           | 33.32          | 1176.3                |
|           | 04/09/97 | 1209.62           | 33.15          | 1176.47               |
|           | 05/26/97 | 1209.62           | 33.66          | 1175.96               |
|           | 06/18/97 | 1209.62           | 33.72          | 1175.9                |
|           | 07/30/97 | 1209.62           | 34.38          | 1175.24               |
|           | 08/19/97 | 1209.62           | 34.5           | 1175.12               |
|           | 08/27/97 | 1209.62           | 34.35          | 1175.27               |
|           | 09/30/97 | 1209.62           | 34.77          | 1174.85               |
|           | 10/14/97 | 1209.62           | 34.96          | 1174.66               |
|           | 11/28/97 | 1209.62           | 35.48          | 1174.14               |
|           | 12/18/97 | 1209.62           | 35.36          | 1174.26               |
|           | 01/27/98 | 1209.62           | 34.96          | 1174.66               |
|           | 04/28/98 | 1209.62           | 34.91          | 1174.71               |
|           | 08/06/98 | 1209.62           | 35.6           | 1174.02               |
|           | 10/14/98 | 1209.62           | 36.95          | 1172.67               |
|           | 04/07/99 | 1209.62           | 35.94          | 1173.68               |
|           | 07/08/99 | 1209.62           | 35.37          | 1174.25               |
|           | 10/29/99 | 1209.62           | 37.6           | 1172.02               |
|           | 02/16/00 | 1209.62           | 38.33          | 1171.29               |
|           | 04/08/00 | 1209.62           | 38.26          | 1171.36               |
|           | 08/23/00 | 1209.62           | 39.44          | 1170.18               |
|           | 11/15/00 | 1209.62           | 38.73          | 1170.89               |
| DM602     | 01/10/95 | 1187.5            | 50.43          | 1137.07               |
|           | 01/27/95 | 1187.5            | 50.92          | 1136.58               |
|           | 02/28/95 | 1187.5            | 51             | 1136.5                |
|           | 03/27/95 | 1187.5            | 50.97          | 1136.53               |
|           | 04/06/95 | 1187.5            | 50.97          | 1136.53               |
|           | 04/27/95 | 1187.5            | 51.58          | 1135.92               |
|           | 05/25/95 | 1187.5            | 51.34          | 1136.16               |
|           | 06/15/95 | 1187.5            | 51.5           | 1136                  |
|           | 07/12/95 | 1187.5            | 51.5           | 1136                  |
|           | 08/29/95 | 1187.5            | 51.52          | 1135.98               |
|           | 09/28/95 | 1187.5            | 51.8           | 1135.7                |
|           | 10/17/95 | 1187.5            | 51.75          | 1135.75               |
|           | 10/30/95 | 1187.5            | 55.01          | 1132.49               |
|           | 12/27/95 | 1187.5            | 52.25          | 1135.25               |
|           | 01/12/96 | 1187.5            | 55.09          | 1132.41               |
|           | 02/29/96 | 1187.5            | 53.17          | 1134.33               |
|           | 03/22/96 | 1187.5            | 53.6           | 1133.9                |
|           | 04/02/96 | 1187.5            | 53.75          | 1133.75               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM602     | 04/25/96 | 1187.5            | 54.15          | 1133.35               |
|           | 05/29/96 | 1187.5            | 54.62          | 1132.88               |
|           | 06/18/96 | 1187.5            | 54.9           | 1132.6                |
|           | 07/03/96 | 1187.5            | 53.68          | 1133.82               |
|           | 08/14/96 | 1187.5            | 53.75          | 1133.75               |
|           | 09/27/96 | 1187.5            | 53.74          | 1133.76               |
|           | 10/03/96 | 1187.5            | 53.74          | 1133.76               |
|           | 10/28/96 | 1187.5            | 55.44          | 1132.06               |
|           | 11/01/96 | 1187.5            | 55.44          | 1132.06               |
|           | 12/16/96 | 1187.5            | 55.5           | 1132                  |
|           | 01/10/97 | 1187.53           | 55.33          | 1132.2                |
|           | 02/18/97 | 1187.53           | 55.95          | 1131.58               |
|           | 03/20/97 | 1187.53           | 55.95          | 1131.58               |
|           | 04/02/97 | 1187.53           | 56.22          | 1131.31               |
|           | 04/18/97 | 1187.53           | 56.44          | 1131.09               |
|           | 05/27/97 | 1187.53           | 56.17          | 1131.36               |
|           | 06/23/97 | 1187.53           | 56.88          | 1130.65               |
|           | 07/25/97 | 1187.53           | 56.19          | 1131.34               |
|           | 08/25/97 | 1187.53           | 57.27          | 1130.26               |
|           | 10/13/97 | 1187.53           | 57.23          | 1130.3                |
|           | 10/23/97 | 1187.53           | 57.25          | 1130.28               |
|           | 12/01/97 | 1187.53           | 57.7           | 1129.83               |
|           | 12/30/97 | 1187.53           | 57.15          | 1130.38               |
|           | 01/27/98 | 1187.53           | 57.28          | 1130.25               |
|           | 04/13/98 | 1187.53           | 57.62          | 1129.91               |
|           | 04/29/98 | 1187.53           | 57.69          | 1129.84               |
|           | 08/06/98 | 1187.53           | 57.66          | 1129.87               |
|           | 10/12/98 | 1187.53           | 57.67          | 1129.86               |
|           | 11/05/98 | 1187.53           | 57.59          | 1129.94               |
|           | 04/08/99 | 1187.53           | 58.44          | 1129.09               |
|           | 04/28/99 | 1187.53           | 61.24          | 1126.29               |
|           | 07/15/99 | 1187.53           | 59.23          | 1128.3                |
|           | 10/12/99 | 1187.53           | 59.38          | 1128.15               |
|           | 12/20/99 | 1187.53           | 59.72          | 1127.81               |
|           | 02/07/00 | 1187.53           | 59.8           | 1127.73               |
|           | 04/05/00 | 1187.53           | 60.11          | 1127.42               |
|           | 04/13/00 | 1187.53           | 60.24          | 1127.29               |
|           | 07/15/00 | 1187.53           | 60.97          | 1126.56               |
|           | 10/10/00 | 1187.53           | 61.67          | 1125.86               |
|           | 10/16/00 | 1187.53           | 61.65          | 1125.88               |
|           | 11/02/00 | 1187.53           | 61.46          | 1126.07               |
| DM603-050 | 10/05/96 | 1183.24           | 33.22          | 1150.02               |
|           | 01/29/97 | 1183.24           | 31.94          | 1151.3                |
|           | 01/31/97 | 1183.24           | 31.69          | 1151.55               |
|           | 03/25/97 | 1183.24           | 69.07          | 1114.17               |
|           | 06/12/97 | 1183.24           | -999           | Dry                   |
|           | 08/19/97 | 1183.24           | -999           | Dry                   |
|           | 08/27/97 | 1183.24           | -999           | Dry                   |
|           | 09/29/97 | 1183.24           | -999           | Dry                   |
|           | 10/14/97 | 1183.24           | -999           | Dry                   |
|           | 11/28/97 | 1183.24           | -999           | Dry                   |
|           | 01/28/98 | 1183.24           | -999           | Dry                   |
|           | 04/24/98 | 1183.24           | -999           | Dry                   |
|           | 07/08/99 | 1183.24           | -999           | Dry                   |
|           | 11/11/99 | 1183.24           | -999           | Dry                   |
| DM603-068 | 02/15/00 | 1183.24           | 0              | 1183.24               |
|           | 01/10/95 | 1183.24           | 62.2           | 1121.04               |
|           | 02/08/95 | 1183.24           | 64.42          | 1118.82               |
|           | 02/28/95 | 1183.24           | 64.12          | 1119.12               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM603-068 | 03/15/95 | 1183.24           | 64.66          | 1118.58               |
|           | 04/04/95 | 1183.24           | 63.6           | 1119.64               |
|           | 05/02/95 | 1183.24           | 64.61          | 1118.63               |
|           | 06/15/95 | 1183.24           | 65.15          | 1118.09               |
|           | 07/19/95 | 1183.24           | 66.41          | 1116.83               |
|           | 08/02/95 | 1183.24           | 64.58          | 1118.66               |
|           | 09/28/95 | 1183.24           | 60.09          | 1123.15               |
|           | 10/19/95 | 1183.24           | 65.2           | 1118.04               |
|           | 11/27/95 | 1183.24           | 65.44          | 1117.8                |
|           | 12/26/95 | 1183.24           | 65.24          | 1118                  |
|           | 01/25/96 | 1183.24           | 64.5           | 1118.74               |
|           | 02/07/96 | 1183.24           | 65.61          | 1117.63               |
|           | 03/27/96 | 1183.24           | 66.38          | 1116.86               |
|           | 04/18/96 | 1183.24           | 67.11          | 1116.13               |
|           | 05/30/96 | 1183.24           | 67.64          | 1115.6                |
|           | 06/12/96 | 1183.24           | 67.8           | 1115.44               |
|           | 07/09/96 | 1183.24           | 67.84          | 1115.4                |
|           | 07/23/96 | 1183.24           | 67.97          | 1115.27               |
|           | 08/15/96 | 1183.24           | 68.13          | 1115.11               |
|           | 09/10/96 | 1183.24           | 67.79          | 1115.45               |
|           | 10/05/96 | 1183.24           | 68.87          | 1114.37               |
|           | 10/16/96 | 1183.24           | 67.85          | 1115.39               |
|           | 11/29/96 | 1183.24           | 67.89          | 1115.35               |
|           | 12/16/96 | 1183.24           | 67.81          | 1115.43               |
|           | 01/29/97 | 1183.24           | 67.74          | 1115.5                |
|           | 01/31/97 | 1183.24           | 67.7           | 1115.54               |
|           | 02/19/97 | 1183.24           | 67.88          | 1115.36               |
|           | 03/25/97 | 1183.24           | 67.79          | 1115.45               |
|           | 04/10/97 | 1183.24           | 67.78          | 1115.46               |
|           | 05/23/97 | 1183.24           | 67.8           | 1115.44               |
|           | 06/12/97 | 1183.24           | 67.91          | 1115.33               |
|           | 07/31/97 | 1183.24           | 67.74          | 1115.5                |
|           | 08/19/97 | 1183.24           | 70.52          | 1112.72               |
|           | 08/27/97 | 1183.24           | 67.83          | 1115.41               |
|           | 09/29/97 | 1183.24           | 67.86          | 1115.38               |
|           | 10/14/97 | 1183.24           | 67.83          | 1115.41               |
|           | 11/28/97 | 1183.24           | 67.68          | 1115.56               |
|           | 12/17/97 | 1183.24           | 67.97          | 1115.27               |
|           | 01/28/98 | 1183.24           | 68.16          | 1115.08               |
|           | 04/24/98 | 1183.24           | 67.88          | 1115.36               |
|           | 07/29/98 | 1183.24           | 68.37          | 1114.87               |
|           | 10/14/98 | 1183.24           | 68.31          | 1114.93               |
|           | 04/07/99 | 1183.24           | 67.99          | 1115.25               |
|           | 07/08/99 | 1183.24           | 67.98          | 1115.26               |
|           | 11/11/99 | 1183.24           | 68.06          | 1115.18               |
| DM603-088 | 10/05/96 | 1183.24           | 67.93          | 1115.31               |
|           | 01/29/97 | 1183.24           | 63.55          | 1119.69               |
|           | 01/31/97 | 1183.24           | 63.31          | 1119.93               |
|           | 02/19/97 | 1183.24           | 63.99          | 1119.25               |
|           | 03/25/97 | 1183.24           | 64.66          | 1118.58               |
|           | 04/10/97 | 1183.24           | 65.46          | 1117.78               |
|           | 05/23/97 | 1183.24           | 66.02          | 1117.22               |
|           | 06/12/97 | 1183.24           | 64.27          | 1118.97               |
|           | 07/31/97 | 1183.24           | 63.08          | 1120.16               |
|           | 08/19/97 | 1183.24           | 65.44          | 1117.8                |
|           | 08/27/97 | 1183.24           | 62.17          | 1121.07               |
|           | 09/29/97 | 1183.24           | 62.38          | 1120.86               |
|           | 10/14/97 | 1183.24           | 62.14          | 1121.1                |
|           | 11/28/97 | 1183.24           | 62.18          | 1121.06               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM603-088 | 12/17/97 | 1183.24           | 62.88          | 1120.36               |
|           | 01/28/98 | 1183.24           | 62.96          | 1120.28               |
|           | 04/24/98 | 1183.24           | 62.68          | 1120.56               |
|           | 07/29/98 | 1183.24           | 64.02          | 1119.22               |
|           | 10/14/98 | 1183.24           | 64.27          | 1118.97               |
|           | 04/07/99 | 1183.24           | 66.4           | 1116.84               |
|           | 07/08/99 | 1183.24           | 65.37          | 1117.87               |
|           | 11/11/99 | 1183.24           | 63.56          | 1119.68               |
|           | 02/15/00 | 1183.24           | 62.61          | 1120.63               |
|           | 04/09/00 | 1183.24           | 62.13          | 1121.11               |
|           | 08/08/00 | 1183.24           | 61.47          | 1121.77               |
|           | 11/14/00 | 1183.24           | 61.26          | 1121.98               |
| DM603-115 | 01/10/95 | 1183.24           | 62.09          | 1121.15               |
|           | 02/08/95 | 1183.24           | 64.26          | 1118.98               |
|           | 02/28/95 | 1183.24           | 63.97          | 1119.27               |
|           | 03/15/95 | 1183.24           | 64.47          | 1118.77               |
|           | 04/04/95 | 1183.24           | 63.42          | 1119.82               |
|           | 05/02/95 | 1183.24           | 64.6           | 1118.64               |
|           | 06/15/95 | 1183.24           | 65.07          | 1118.17               |
|           | 07/19/95 | 1183.24           | 66.19          | 1117.05               |
|           | 08/02/95 | 1183.24           | 64.41          | 1118.83               |
|           | 09/28/95 | 1183.24           | 63.79          | 1119.45               |
|           | 10/19/95 | 1183.24           | 62.65          | 1120.59               |
|           | 11/27/95 | 1183.24           | 65.38          | 1117.86               |
|           | 12/26/95 | 1183.24           | 62.7           | 1120.54               |
|           | 01/25/96 | 1183.24           | 64.31          | 1118.93               |
|           | 02/07/96 | 1183.24           | 65.67          | 1117.57               |
|           | 03/27/96 | 1183.24           | 66.45          | 1116.79               |
|           | 04/18/96 | 1183.24           | 66.95          | 1116.29               |
|           | 05/30/96 | 1183.24           | 67.56          | 1115.68               |
|           | 06/12/96 | 1183.24           | 68.14          | 1115.1                |
|           | 07/09/96 | 1183.24           | 68.12          | 1115.12               |
|           | 07/23/96 | 1183.24           | 68.14          | 1115.1                |
|           | 08/15/96 | 1183.24           | 68.81          | 1114.43               |
|           | 09/10/96 | 1183.24           | 68.4           | 1114.84               |
|           | 10/05/96 | 1183.24           | 70.1           | 1113.14               |
|           | 10/16/96 | 1183.24           | 68.89          | 1114.35               |
|           | 11/29/96 | 1183.24           | 68.88          | 1114.36               |
|           | 12/16/96 | 1183.24           | 69.08          | 1114.16               |
|           | 01/29/97 | 1183.24           | 68.98          | 1114.26               |
|           | 01/31/97 | 1183.24           | 68.9           | 1114.34               |
|           | 02/19/97 | 1183.24           | 69.27          | 1113.97               |
|           | 03/25/97 | 1183.24           | 69.37          | 1113.87               |
|           | 04/10/97 | 1183.24           | 69.7           | 1113.54               |
|           | 05/23/97 | 1183.24           | 69.99          | 1113.25               |
|           | 06/12/97 | 1183.24           | 70.09          | 1113.15               |
|           | 07/31/97 | 1183.24           | 70.41          | 1112.83               |
|           | 08/19/97 | 1183.24           | 72.72          | 1110.52               |
|           | 08/27/97 | 1183.24           | 50.74          | 1132.5                |
|           | 09/29/97 | 1183.24           | 70.27          | 1112.97               |
|           | 10/14/97 | 1183.24           | 69.75          | 1113.49               |
|           | 11/28/97 | 1183.24           | 69.85          | 1113.39               |
|           | 12/17/97 | 1183.24           | 70.12          | 1113.12               |
|           | 01/28/98 | 1183.24           | 70.05          | 1113.19               |
|           | 04/24/98 | 1183.24           | 70.15          | 1113.09               |
|           | 07/29/98 | 1183.24           | 70.51          | 1112.73               |
|           | 10/14/98 | 1183.24           | 70.41          | 1112.83               |
|           | 04/07/99 | 1183.24           | 71.46          | 1111.78               |
|           | 07/08/99 | 1183.24           | 72.67          | 1110.57               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM603-115 | 11/11/99 | 1183.24           | 73.01          | 1110.23               |
|           | 02/15/00 | 1183.24           | 72.91          | 1110.33               |
|           | 04/09/00 | 1183.24           | 73.48          | 1109.76               |
|           | 08/08/00 | 1183.24           | 74.13          | 1109.11               |
|           | 11/14/00 | 1183.24           | 74.4           | 1108.84               |
| DM603-160 | 10/05/96 | 1183.24           | 70.58          | 1112.66               |
|           | 01/29/97 | 1183.24           | 69.5           | 1113.74               |
|           | 01/31/97 | 1183.24           | 69.35          | 1113.89               |
|           | 02/19/97 | 1183.24           | 69.84          | 1113.4                |
|           | 03/25/97 | 1183.24           | 69.94          | 1113.3                |
|           | 04/10/97 | 1183.24           | 70.24          | 1113                  |
|           | 05/23/97 | 1183.24           | 70.42          | 1112.82               |
|           | 06/12/97 | 1183.24           | 70.5           | 1112.74               |
|           | 07/31/97 | 1183.24           | 70.8           | 1112.44               |
|           | 08/19/97 | 1183.24           | 72.13          | 1111.11               |
|           | 08/27/97 | 1183.24           | 70.16          | 1113.08               |
|           | 09/29/97 | 1183.24           | 70.67          | 1112.57               |
|           | 10/14/97 | 1183.24           | 70.14          | 1113.1                |
|           | 11/28/97 | 1183.24           | 70.23          | 1113.01               |
|           | 12/17/97 | 1183.24           | 70.45          | 1112.79               |
|           | 01/28/98 | 1183.24           | 70.41          | 1112.83               |
|           | 04/24/98 | 1183.24           | 70.5           | 1112.74               |
|           | 07/29/98 | 1183.24           | 70.77          | 1112.47               |
|           | 10/14/98 | 1183.24           | 70.7           | 1112.54               |
|           | 04/07/99 | 1183.24           | 71.9           | 1111.34               |
|           | 07/08/99 | 1183.24           | 72.9           | 1110.34               |
|           | 11/11/99 | 1183.24           | 73.47          | 1109.77               |
|           | 02/15/00 | 1183.24           | 73.36          | 1109.88               |
|           | 04/09/00 | 1183.24           | 74.01          | 1109.23               |
|           | 08/08/00 | 1183.24           | 74.51          | 1108.73               |
|           | 11/14/00 | 1183.24           | 74.75          | 1108.49               |
| DM603-170 | 01/10/95 | 1183.24           | 62.4           | 1120.84               |
|           | 02/08/95 | 1183.24           | 64.7           | 1118.54               |
|           | 02/28/95 | 1183.24           | 64.42          | 1118.82               |
|           | 03/15/95 | 1183.24           | 64.89          | 1118.35               |
|           | 04/04/95 | 1183.24           | 63.81          | 1119.43               |
|           | 05/02/95 | 1183.24           | 64.98          | 1118.26               |
|           | 06/15/95 | 1183.24           | 65.43          | 1117.81               |
|           | 07/19/95 | 1183.24           | 66.38          | 1116.86               |
|           | 08/02/95 | 1183.24           | 64.74          | 1118.5                |
|           | 09/28/95 | 1183.24           | 64.2           | 1119.04               |
|           | 10/19/95 | 1183.24           | 65.48          | 1117.76               |
|           | 11/27/95 | 1183.24           | 65.69          | 1117.55               |
|           | 12/26/95 | 1183.24           | 65.46          | 1117.78               |
|           | 01/25/96 | 1183.24           | 64.45          | 1118.79               |
|           | 02/07/96 | 1183.24           | 65.42          | 1117.82               |
|           | 03/27/96 | 1183.24           | 66.88          | 1116.36               |
|           | 04/18/96 | 1183.24           | 67.41          | 1115.83               |
|           | 05/30/96 | 1183.24           | 68.11          | 1115.13               |
|           | 06/12/96 | 1183.24           | 68.67          | 1114.57               |
|           | 07/09/96 | 1183.24           | 68.66          | 1114.58               |
|           | 07/23/96 | 1183.24           | 68.56          | 1114.68               |
|           | 08/15/96 | 1183.24           | 39.17          | 1144.07               |
|           | 09/10/96 | 1183.24           | 68.85          | 1114.39               |
|           | 10/05/96 | 1183.24           | 70.46          | 1112.78               |
|           | 10/16/96 | 1183.24           | 69.18          | 1114.06               |
|           | 11/29/96 | 1183.24           | 69.23          | 1114.01               |
|           | 12/16/96 | 1183.24           | 69.33          | 1113.91               |
|           | 01/29/97 | 1183.24           | 69.41          | 1113.83               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM603-170 | 01/31/97 | 1183.24           | 69.25          | 1113.99               |
|           | 02/19/97 | 1183.24           | 69.69          | 1113.55               |
|           | 03/25/97 | 1183.24           | 69.82          | 1113.42               |
|           | 04/10/97 | 1183.24           | 70.12          | 1113.12               |
|           | 05/23/97 | 1183.24           | 70.37          | 1112.87               |
|           | 06/12/97 | 1183.24           | 70.43          | 1112.81               |
|           | 07/31/97 | 1183.24           | 70.73          | 1112.51               |
|           | 08/19/97 | 1183.24           | 71.26          | 1111.98               |
|           | 08/27/97 | 1183.24           | 70.04          | 1113.2                |
|           | 09/29/97 | 1183.24           | 70.57          | 1112.67               |
|           | 10/14/97 | 1183.24           | 70.07          | 1113.17               |
|           | 11/28/97 | 1183.24           | 70.13          | 1113.11               |
|           | 12/17/97 | 1183.24           | 70.25          | 1112.99               |
|           | 01/28/98 | 1183.24           | 70.3           | 1112.94               |
|           | 04/24/98 | 1183.24           | 70.38          | 1112.86               |
|           | 07/29/98 | 1183.24           | 70.66          | 1112.58               |
|           | 10/14/98 | 1183.24           | 70.61          | 1112.63               |
|           | 04/07/99 | 1183.24           | 71.85          | 1111.39               |
|           | 07/08/99 | 1183.24           | 72.87          | 1110.37               |
|           | 11/11/99 | 1183.24           | 73.4           | 1109.84               |
|           | 02/15/00 | 1183.24           | 73.27          | 1109.97               |
|           | 04/09/00 | 1183.24           | 73.9           | 1109.34               |
|           | 08/08/00 | 1183.24           | 74.44          | 1108.8                |
|           | 11/14/00 | 1183.24           | 74.66          | 1108.58               |
| DM603-185 | 10/05/96 | 1183.24           | 70.38          | 1112.86               |
|           | 01/29/97 | 1183.24           | 69.29          | 1113.95               |
|           | 01/31/97 | 1183.24           | 69.19          | 1114.05               |
|           | 02/19/97 | 1183.24           | 69.62          | 1113.62               |
|           | 03/25/97 | 1183.24           | 69.76          | 1113.48               |
|           | 04/10/97 | 1183.24           | 70.06          | 1113.18               |
|           | 05/23/97 | 1183.24           | 70.28          | 1112.96               |
|           | 06/12/97 | 1183.24           | 70.25          | 1112.99               |
|           | 07/31/97 | 1183.24           | 70.61          | 1112.63               |
|           | 08/19/97 | 1183.24           | 70.71          | 1112.53               |
|           | 08/27/97 | 1183.24           | 69.93          | 1113.31               |
|           | 09/29/97 | 1183.24           | 70.45          | 1112.79               |
|           | 10/14/97 | 1183.24           | 69.97          | 1113.27               |
|           | 11/28/97 | 1183.24           | 69.97          | 1113.27               |
|           | 12/17/97 | 1183.24           | 70.2           | 1113.04               |
|           | 01/28/98 | 1183.24           | 70.16          | 1113.08               |
|           | 04/24/98 | 1183.24           | 70.25          | 1112.99               |
|           | 07/29/98 | 1183.24           | 70.54          | 1112.7                |
|           | 10/14/98 | 1183.24           | 70.44          | 1112.8                |
|           | 04/07/99 | 1183.24           | 71.7           | 1111.54               |
|           | 07/08/99 | 1183.24           | 72.72          | 1110.52               |
|           | 11/11/99 | 1183.24           | 73.25          | 1109.99               |
|           | 02/15/00 | 1183.24           | 73.14          | 1110.1                |
|           | 04/09/00 | 1183.24           | 73.78          | 1109.46               |
|           | 08/08/00 | 1183.24           | 74.35          | 1108.89               |
|           | 11/14/00 | 1183.24           | 74.57          | 1108.67               |
| DM603-205 | 01/10/95 | 1183.24           | 62.16          | 1121.08               |
|           | 02/08/95 | 1183.24           | 57.16          | 1126.08               |
|           | 02/28/95 | 1183.24           | 64.14          | 1119.1                |
|           | 03/15/95 | 1183.24           | 64.67          | 1118.57               |
|           | 04/04/95 | 1183.24           | 63.62          | 1119.62               |
|           | 05/02/95 | 1183.24           | 64.71          | 1118.53               |
|           | 06/15/95 | 1183.24           | 65.18          | 1118.06               |
|           | 07/19/95 | 1183.24           | 66.26          | 1116.98               |
|           | 08/02/95 | 1183.24           | 64.53          | 1118.71               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM603-205 | 09/28/95 | 1183.24           | 63.95          | 1119.29               |
|           | 10/19/95 | 1183.24           | 65.27          | 1117.97               |
|           | 11/27/95 | 1183.24           | 65.41          | 1117.83               |
|           | 12/26/95 | 1183.24           | 65.31          | 1117.93               |
|           | 01/25/96 | 1183.24           | 64.17          | 1119.07               |
|           | 02/07/96 | 1183.24           | 65.54          | 1117.7                |
|           | 03/27/96 | 1183.24           | 66.63          | 1116.61               |
|           | 04/18/96 | 1183.24           | 67.24          | 1116                  |
|           | 05/30/96 | 1183.24           | 67.89          | 1115.35               |
|           | 06/12/96 | 1183.24           | 68.42          | 1114.82               |
|           | 07/09/96 | 1183.24           | 68.33          | 1114.91               |
|           | 07/23/96 | 1183.24           | 68.23          | 1115.01               |
|           | 08/15/96 | 1183.24           | 68.89          | 1114.35               |
|           | 09/10/96 | 1183.24           | 68.58          | 1114.66               |
|           | 10/05/96 | 1183.24           | 70.28          | 1112.96               |
|           | 10/16/96 | 1183.24           | 69.01          | 1114.23               |
|           | 11/29/96 | 1183.24           | 68.9           | 1114.34               |
|           | 12/16/96 | 1183.24           | 69.12          | 1114.12               |
|           | 01/29/97 | 1183.24           | 69.09          | 1114.15               |
|           | 01/31/97 | 1183.24           | 68.97          | 1114.27               |
|           | 02/19/97 | 1183.24           | 69.47          | 1113.77               |
|           | 03/25/97 | 1183.24           | 69.57          | 1113.67               |
|           | 04/10/97 | 1183.24           | 69.83          | 1113.41               |
|           | 05/23/97 | 1183.24           | 69.08          | 1114.16               |
|           | 06/12/97 | 1183.24           | 70.03          | 1113.21               |
|           | 07/31/97 | 1183.24           | 70.52          | 1112.72               |
|           | 08/19/97 | 1183.24           | 70.66          | 1112.58               |
|           | 08/27/97 | 1183.24           | 69.78          | 1113.46               |
|           | 09/29/97 | 1183.24           | 70.24          | 1113                  |
|           | 10/14/97 | 1183.24           | 69.79          | 1113.45               |
|           | 11/28/97 | 1183.24           | 69.76          | 1113.48               |
|           | 12/17/97 | 1183.24           | 69.94          | 1113.3                |
|           | 01/28/98 | 1183.24           | 70             | 1113.24               |
|           | 04/24/98 | 1183.24           | 70.01          | 1113.23               |
|           | 07/29/98 | 1183.24           | 70.34          | 1112.9                |
|           | 10/14/98 | 1183.24           | 70.25          | 1112.99               |
|           | 04/07/99 | 1183.24           | 71.51          | 1111.73               |
|           | 07/08/99 | 1183.24           | 72.45          | 1110.79               |
|           | 11/11/99 | 1183.24           | 73.08          | 1110.16               |
|           | 02/15/00 | 1183.24           | 72.94          | 1110.3                |
|           | 04/09/00 | 1183.24           | 73.59          | 1109.65               |
|           | 08/08/00 | 1183.24           | 74.13          | 1109.11               |
|           | 11/14/00 | 1183.24           | 74.39          | 1108.85               |
| DM603-230 | 10/05/96 | 1183.24           | 70.14          | 1113.1                |
|           | 01/29/97 | 1183.24           | 68.97          | 1114.27               |
|           | 01/31/97 | 1183.24           | 68.84          | 1114.4                |
|           | 02/19/97 | 1183.24           | 69.34          | 1113.9                |
|           | 03/25/97 | 1183.24           | 69.52          | 1113.72               |
|           | 04/10/97 | 1183.24           | 69.71          | 1113.53               |
|           | 05/23/97 | 1183.24           | 68.97          | 1114.27               |
|           | 06/12/97 | 1183.24           | 69.95          | 1113.29               |
|           | 07/31/97 | 1183.24           | 70.33          | 1112.91               |
|           | 08/19/97 | 1183.24           | 70.43          | 1112.81               |
|           | 08/27/97 | 1183.24           | 69.74          | 1113.5                |
|           | 09/29/97 | 1183.24           | 70.08          | 1113.16               |
|           | 10/14/97 | 1183.24           | 69.76          | 1113.48               |
|           | 11/28/97 | 1183.24           | 69.66          | 1113.58               |
|           | 12/17/97 | 1183.24           | 69.79          | 1113.45               |
|           | 01/28/98 | 1183.24           | 69.85          | 1113.39               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM603-230 | 04/24/98 | 1183.24           | 69.9           | 1113.34               |
|           | 07/29/98 | 1183.24           | 70.2           | 1113.04               |
|           | 10/14/98 | 1183.24           | 70.09          | 1113.15               |
|           | 04/07/99 | 1183.24           | 71.4           | 1111.84               |
|           | 07/08/99 | 1183.24           | 72.4           | 1110.84               |
|           | 11/11/99 | 1183.24           | 73.05          | 1110.19               |
|           | 02/15/00 | 1183.24           | 72.81          | 1110.43               |
|           | 04/09/00 | 1183.24           | 73.52          | 1109.72               |
|           | 08/08/00 | 1183.24           | 74.05          | 1109.19               |
|           | 11/14/00 | 1183.24           | 74.27          | 1108.97               |
| DM603-245 | 01/10/95 | 1183.24           | 61.76          | 1121.48               |
|           | 02/08/95 | 1183.24           | 56.49          | 1126.75               |
|           | 02/28/95 | 1183.24           | 63.63          | 1119.61               |
|           | 03/15/95 | 1183.24           | 64.14          | 1119.1                |
|           | 04/04/95 | 1183.24           | 63.08          | 1120.16               |
|           | 05/02/95 | 1183.24           | 64.22          | 1119.02               |
|           | 06/15/95 | 1183.24           | 64.77          | 1118.47               |
|           | 07/19/95 | 1183.24           | 65.66          | 1117.58               |
|           | 08/02/95 | 1183.24           | 64.02          | 1119.22               |
|           | 09/28/95 | 1183.24           | 63.46          | 1119.78               |
|           | 11/27/95 | 1183.24           | 64.97          | 1118.27               |
|           | 12/26/95 | 1183.24           | 63.73          | 1119.51               |
|           | 01/25/96 | 1183.24           | 63.74          | 1119.5                |
|           | 02/07/96 | 1183.24           | 56.16          | 1127.08               |
|           | 03/27/96 | 1183.24           | 66.16          | 1117.08               |
|           | 04/18/96 | 1183.24           | 66.71          | 1116.53               |
|           | 05/30/96 | 1183.24           | 67.37          | 1115.87               |
|           | 06/12/96 | 1183.24           | 67.95          | 1115.29               |
|           | 07/09/96 | 1183.24           | 67.97          | 1115.27               |
|           | 07/23/96 | 1183.24           | 67.72          | 1115.52               |
|           | 08/15/96 | 1183.24           | 68.36          | 1114.88               |
|           | 09/10/96 | 1183.24           | 68.05          | 1115.19               |
|           | 10/05/96 | 1183.24           | 69.55          | 1113.69               |
|           | 10/16/96 | 1183.24           | 68.37          | 1114.87               |
|           | 11/29/96 | 1183.24           | 68.41          | 1114.83               |
|           | 12/16/96 | 1183.24           | 68.23          | 1115.01               |
|           | 01/29/97 | 1183.24           | 68.54          | 1114.7                |
|           | 01/31/97 | 1183.24           | 68.44          | 1114.8                |
|           | 02/19/97 | 1183.24           | 68.93          | 1114.31               |
|           | 03/25/97 | 1183.24           | 69.07          | 1114.17               |
|           | 04/10/97 | 1183.24           | 69.33          | 1113.91               |
|           | 05/23/97 | 1183.24           | 68.63          | 1114.61               |
|           | 06/12/97 | 1183.24           | 69.51          | 1113.73               |
|           | 07/31/97 | 1183.24           | 69.98          | 1113.26               |
|           | 08/19/97 | 1183.24           | 69.22          | 1114.02               |
|           | 08/27/97 | 1183.24           | 69.42          | 1113.82               |
|           | 09/29/97 | 1183.24           | 69.7           | 1113.54               |
|           | 10/14/97 | 1183.24           | 69.31          | 1113.93               |
|           | 11/28/97 | 1183.24           | 69.23          | 1114.01               |
|           | 12/17/97 | 1183.24           | 69.42          | 1113.82               |
|           | 01/28/98 | 1183.24           | 69.43          | 1113.81               |
|           | 04/24/98 | 1183.24           | 69.49          | 1113.75               |
|           | 07/29/98 | 1183.24           | 69.78          | 1113.46               |
|           | 10/14/98 | 1183.24           | 69.71          | 1113.53               |
|           | 04/07/99 | 1183.24           | 71.01          | 1112.23               |
|           | 07/08/99 | 1183.24           | 72.05          | 1111.19               |
|           | 11/11/99 | 1183.24           | 72.48          | 1110.76               |
|           | 02/15/00 | 1183.24           | 72.39          | 1110.85               |
|           | 04/09/00 | 1183.24           | 70.76          | 1112.48               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM603-245 | 08/08/00 | 1183.24           | 73.61          | 1109.63               |
|           | 11/14/00 | 1183.24           | 73.94          | 1109.3                |
| DM604     | 01/10/95 | 1178.32           | 61.12          | 1117.2                |
|           | 01/26/95 | 1178.32           | 62.72          | 1115.6                |
|           | 02/28/95 | 1178.32           | 63             | 1115.32               |
|           | 03/27/95 | 1178.32           | 62.7           | 1115.62               |
|           | 04/06/95 | 1178.32           | 62.7           | 1115.62               |
|           | 04/23/95 | 1178.32           | 63.7           | 1114.62               |
|           | 04/27/95 | 1178.32           | 63.7           | 1114.62               |
|           | 05/25/95 | 1178.32           | 62.8           | 1115.52               |
|           | 06/16/95 | 1178.32           | 62.86          | 1115.46               |
|           | 07/12/95 | 1178.32           | 62.86          | 1115.46               |
|           | 08/29/95 | 1178.32           | 62.85          | 1115.47               |
|           | 09/28/95 | 1178.32           | 63.11          | 1115.21               |
|           | 10/17/95 | 1178.32           | 64.31          | 1114.01               |
|           | 10/30/95 | 1178.32           | 64.23          | 1114.09               |
|           | 12/27/95 | 1178.32           | 62.81          | 1115.51               |
|           | 01/12/96 | 1178.32           | 64.25          | 1114.07               |
|           | 02/29/96 | 1178.32           | 64.17          | 1114.15               |
|           | 03/22/96 | 1178.32           | 65.27          | 1113.05               |
|           | 04/30/96 | 1178.32           | 66.45          | 1111.87               |
|           | 05/29/96 | 1178.32           | 66.79          | 1111.53               |
|           | 06/18/96 | 1178.32           | 67.12          | 1111.2                |
|           | 07/01/96 | 1178.32           | 66.9           | 1111.42               |
|           | 08/14/96 | 1178.32           | 66.92          | 1111.4                |
|           | 09/27/96 | 1178.32           | 66.95          | 1111.37               |
|           | 10/03/96 | 1178.32           | 66.95          | 1111.37               |
|           | 10/28/96 | 1178.32           | 69             | 1109.32               |
|           | 11/21/96 | 1178.32           | 66.17          | 1112.15               |
|           | 12/16/96 | 1178.32           | 68.38          | 1109.94               |
|           | 01/10/97 | 1178.35           | 67.75          | 1110.6                |
|           | 02/18/97 | 1178.35           | 68.65          | 1109.7                |
|           | 03/20/97 | 1178.35           | 68.65          | 1109.7                |
|           | 04/02/97 | 1178.35           | 68.93          | 1109.42               |
|           | 04/16/97 | 1178.35           | 69.13          | 1109.22               |
|           | 05/23/97 | 1178.35           | 65.05          | 1113.3                |
|           | 06/23/97 | 1178.35           | 69.16          | 1109.19               |
|           | 07/25/97 | 1178.35           | 68.87          | 1109.48               |
|           | 08/25/97 | 1178.35           | 69.07          | 1109.28               |
|           | 09/29/97 | 1178.35           | 69.28          | 1109.07               |
|           | 10/15/97 | 1178.35           | 69.16          | 1109.19               |
|           | 10/27/97 | 1178.35           | 69.35          | 1109                  |
|           | 11/26/97 | 1178.35           | 69.18          | 1109.17               |
|           | 12/30/97 | 1178.35           | 68.02          | 1110.33               |
|           | 01/26/98 | 1178.35           | 68.77          | 1109.58               |
|           | 04/08/98 | 1178.35           | 69.28          | 1109.07               |
|           | 04/29/98 | 1178.35           | 69.48          | 1108.87               |
|           | 08/06/98 | 1178.35           | 68.75          | 1109.6                |
|           | 10/09/98 | 1178.35           | 69.17          | 1109.18               |
|           | 11/05/98 | 1178.35           | 69.65          | 1108.7                |
|           | 04/08/99 | 1178.35           | 70.81          | 1107.54               |
|           | 04/28/99 | 1178.35           | 72.17          | 1106.18               |
|           | 07/08/99 | 1178.35           | 71.77          | 1106.58               |
|           | 10/11/99 | 1178.35           | 72.11          | 1106.24               |
|           | 12/15/99 | 1178.35           | 72.48          | 1105.87               |
|           | 02/09/00 | 1178.35           | 72.39          | 1105.96               |
|           | 04/05/00 | 1178.35           | 72.55          | 1105.8                |
|           | 04/14/00 | 1178.35           | 72.62          | 1105.73               |
|           | 07/15/00 | 1178.35           | 72.58          | 1105.77               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM604     | 10/10/00 | 1178.35           | 73.63          | 1104.72               |
|           | 10/17/00 | 1178.35           | 73.64          | 1104.71               |
|           | 11/02/00 | 1178.35           | 73.31          | 1105.04               |
| DM605-046 | 08/15/97 | 1175.16           | 45.9           | 1129.26               |
|           | 08/27/97 | 1175.16           | 25.2           | 1149.96               |
|           | 09/29/97 | 1175.16           | -999           | Dry                   |
|           | 10/14/97 | 1175.16           | -999           | Dry                   |
|           | 11/28/97 | 1175.16           | -999           | Dry                   |
|           | 12/30/97 | 1175.16           | -999           | Dry                   |
|           | 01/28/98 | 1175.16           | -999           | Dry                   |
|           | 04/22/98 | 1175.16           | -999           | Dry                   |
|           | 07/08/99 | 1175.16           | -999           | Dry                   |
|           | 12/08/99 | 1175.16           | -999           | Dry                   |
|           | 02/15/00 | 1175.16           | 0              | 1175.16               |
| DM605-066 | 01/10/95 | 1175.16           | 59.2           | 1115.96               |
|           | 02/09/95 | 1175.16           | 60.52          | 1114.64               |
|           | 02/28/95 | 1175.16           | 60.59          | 1114.57               |
|           | 03/16/95 | 1175.16           | 61.07          | 1114.09               |
|           | 04/04/95 | 1175.16           | 60.41          | 1114.75               |
|           | 05/02/95 | 1175.16           | 61.4           | 1113.76               |
|           | 06/15/95 | 1175.16           | 61.71          | 1113.45               |
|           | 07/19/95 | 1175.16           | 60.69          | 1114.47               |
|           | 08/04/95 | 1175.16           | 61.47          | 1113.69               |
|           | 09/28/95 | 1175.16           | 65.43          | 1109.73               |
|           | 10/19/95 | 1175.16           | 61.9           | 1113.26               |
|           | 11/28/95 | 1175.16           | 62.06          | 1113.1                |
|           | 12/26/95 | 1175.16           | 61.34          | 1113.82               |
|           | 02/08/96 | 1175.16           | 61.93          | 1113.23               |
|           | 03/23/96 | 1175.16           | 62.56          | 1112.6                |
|           | 04/17/96 | 1175.16           | 63.69          | 1111.47               |
|           | 05/16/96 | 1175.16           | 63.55          | 1111.61               |
|           | 06/12/96 | 1175.16           | 63.95          | 1111.21               |
|           | 07/09/96 | 1175.16           | 64.05          | 1111.11               |
|           | 07/23/96 | 1175.16           | 63.06          | 1112.1                |
|           | 08/15/96 | 1175.16           | 65.3           | 1109.86               |
|           | 09/10/96 | 1175.16           | 64.72          | 1110.44               |
|           | 10/16/96 | 1175.16           | 65.24          | 1109.92               |
|           | 11/21/96 | 1175.16           | 65.88          | 1109.28               |
|           | 12/16/96 | 1175.16           | 65.44          | 1109.72               |
|           | 01/17/97 | 1175.16           | 65.34          | 1109.82               |
|           | 01/30/97 | 1175.16           | 67.25          | 1107.91               |
|           | 02/19/97 | 1175.16           | 65.58          | 1109.58               |
|           | 03/25/97 | 1175.16           | 65.93          | 1109.23               |
|           | 08/15/97 | 1175.16           | 65.9           | 1109.26               |
|           | 08/27/97 | 1175.16           | 65.93          | 1109.23               |
|           | 09/29/97 | 1175.16           | -999           | Dry                   |
|           | 10/14/97 | 1175.16           | -999           | Dry                   |
|           | 11/28/97 | 1175.16           | -999           | Dry                   |
|           | 12/30/97 | 1175.16           | -999           | Dry                   |
|           | 01/28/98 | 1175.16           | -999           | Dry                   |
|           | 04/22/98 | 1175.16           | -999           | Dry                   |
|           | 04/07/99 | 1175.16           | 65.76          | 1109.4                |
|           | 07/08/99 | 1175.16           | 65.92          | 1109.24               |
|           | 12/08/99 | 1175.16           | 65.83          | 1109.33               |
| DM605-075 | 01/17/97 | 1175.16           | 64.79          | 1110.37               |
|           | 01/30/97 | 1175.16           | 66.82          | 1108.34               |
|           | 02/19/97 | 1175.16           | 65.53          | 1109.63               |
|           | 03/25/97 | 1175.16           | 65.67          | 1109.49               |
|           | 04/10/97 | 1175.16           | 66.16          | 1109                  |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM605-075 | 05/27/97 | 1175.16           | 65.74          | 1109.42               |
|           | 06/11/97 | 1175.16           | 66.03          | 1109.13               |
|           | 07/31/97 | 1175.16           | 65.84          | 1109.32               |
|           | 08/15/97 | 1175.16           | 65.69          | 1109.47               |
|           | 08/27/97 | 1175.16           | 65.27          | 1109.89               |
|           | 09/29/97 | 1175.16           | 66.04          | 1109.12               |
|           | 10/14/97 | 1175.16           | 66.12          | 1109.04               |
|           | 11/28/97 | 1175.16           | 66.64          | 1108.52               |
|           | 12/11/97 | 1175.16           | 67.24          | 1107.92               |
|           | 12/30/97 | 1175.16           | 66.32          | 1108.84               |
|           | 01/28/98 | 1175.16           | 66.4           | 1108.76               |
|           | 04/22/98 | 1175.16           | 66.25          | 1108.91               |
|           | 07/29/98 | 1175.16           | 66.14          | 1109.02               |
|           | 10/15/98 | 1175.16           | 66.65          | 1108.51               |
|           | 04/07/99 | 1175.16           | 67.48          | 1107.68               |
|           | 07/08/99 | 1175.16           | 68.1           | 1107.06               |
|           | 12/08/99 | 1175.16           | 69.07          | 1106.09               |
|           | 02/15/00 | 1175.16           | 67.65          | 1107.51               |
|           | 08/07/00 | 1175.16           | 67.93          | 1107.23               |
|           | 11/13/00 | 1175.16           | 68.11          | 1107.05               |
| DM605-105 | 01/10/95 | 1175.16           | 59.15          | 1116.01               |
|           | 02/09/95 | 1175.16           | 60.44          | 1114.72               |
|           | 02/28/95 | 1175.16           | 60.54          | 1114.62               |
|           | 03/16/95 | 1175.16           | 60.94          | 1114.22               |
|           | 04/04/95 | 1175.16           | 60.43          | 1114.73               |
|           | 05/02/95 | 1175.16           | 61.31          | 1113.85               |
|           | 06/15/95 | 1175.16           | 61.74          | 1113.42               |
|           | 07/19/95 | 1175.16           | 60.79          | 1114.37               |
|           | 08/04/95 | 1175.16           | 61.46          | 1113.7                |
|           | 09/28/95 | 1175.16           | 61             | 1114.16               |
|           | 10/19/95 | 1175.16           | 56.99          | 1118.17               |
|           | 11/28/95 | 1175.16           | 62             | 1113.16               |
|           | 12/26/95 | 1175.16           | 61.25          | 1113.91               |
|           | 01/25/96 | 1175.16           | 61.21          | 1113.95               |
|           | 02/08/96 | 1175.16           | 61.78          | 1113.38               |
|           | 03/23/96 | 1175.16           | 62.62          | 1112.54               |
|           | 04/17/96 | 1175.16           | 63.78          | 1111.38               |
|           | 05/16/96 | 1175.16           | 63.51          | 1111.65               |
|           | 06/12/96 | 1175.16           | 63.89          | 1111.27               |
|           | 07/09/96 | 1175.16           | 63.85          | 1111.31               |
|           | 07/23/96 | 1175.16           | 64.06          | 1111.1                |
|           | 08/15/96 | 1175.16           | 65.14          | 1110.02               |
|           | 09/10/96 | 1175.16           | 64.58          | 1110.58               |
|           | 10/16/96 | 1175.16           | 65.07          | 1110.09               |
|           | 11/21/96 | 1175.16           | 65.87          | 1109.29               |
|           | 12/16/96 | 1175.16           | 65.35          | 1109.81               |
|           | 01/17/97 | 1175.16           | 65.13          | 1110.03               |
|           | 01/30/97 | 1175.16           | 67.13          | 1108.03               |
|           | 02/19/97 | 1175.16           | 65.57          | 1109.59               |
|           | 03/25/97 | 1175.16           | 65.84          | 1109.32               |
|           | 04/10/97 | 1175.16           | 66.13          | 1109.03               |
|           | 05/27/97 | 1175.16           | 65.97          | 1109.19               |
|           | 06/11/97 | 1175.16           | 66.37          | 1108.79               |
|           | 07/31/97 | 1175.16           | 66.66          | 1108.5                |
|           | 08/15/97 | 1175.16           | 65.95          | 1109.21               |
|           | 08/27/97 | 1175.16           | 66.24          | 1108.92               |
|           | 09/29/97 | 1175.16           | 66.4           | 1108.76               |
|           | 10/14/97 | 1175.16           | 66.49          | 1108.67               |
|           | 11/28/97 | 1175.16           | 66.49          | 1108.67               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM605-105 | 12/11/97 | 1175.16           | 66.94          | 1108.22               |
|           | 12/30/97 | 1175.16           | 65.81          | 1109.35               |
|           | 01/28/98 | 1175.16           | 66.54          | 1108.62               |
|           | 04/22/98 | 1175.16           | 66.35          | 1108.81               |
|           | 07/29/98 | 1175.16           | 66.48          | 1108.68               |
|           | 10/15/98 | 1175.16           | 67.36          | 1107.8                |
|           | 04/07/99 | 1175.16           | 67.8           | 1107.36               |
|           | 07/08/99 | 1175.16           | 68.46          | 1106.7                |
|           | 12/08/99 | 1175.16           | 69.25          | 1105.91               |
|           | 02/15/00 | 1175.16           | 69.14          | 1106.02               |
|           | 04/09/00 | 1175.16           | 69.46          | 1105.7                |
| DM605-160 | 08/07/00 | 1175.16           | 70.3           | 1104.86               |
|           | 11/13/00 | 1175.16           | 69.21          | 1105.95               |
|           | 01/17/97 | 1175.16           | 66.08          | 1109.08               |
|           | 01/30/97 | 1175.16           | 68.04          | 1107.12               |
|           | 02/19/97 | 1175.16           | 66.53          | 1108.63               |
|           | 03/25/97 | 1175.16           | 66.68          | 1108.48               |
|           | 04/10/97 | 1175.16           | 67.03          | 1108.13               |
|           | 05/27/97 | 1175.16           | 67             | 1108.16               |
|           | 06/11/97 | 1175.16           | 67.28          | 1107.88               |
|           | 07/31/97 | 1175.16           | 67.51          | 1107.65               |
|           | 08/15/97 | 1175.16           | 66.68          | 1108.48               |
| DM605-170 | 08/27/97 | 1175.16           | 67.02          | 1108.14               |
|           | 09/29/97 | 1175.16           | 67.24          | 1107.92               |
|           | 10/14/97 | 1175.16           | 67.29          | 1107.87               |
|           | 11/28/97 | 1175.16           | 67.2           | 1107.96               |
|           | 12/11/97 | 1175.16           | 67.67          | 1107.49               |
|           | 12/30/97 | 1175.16           | 66.46          | 1108.7                |
|           | 01/28/98 | 1175.16           | 67.24          | 1107.92               |
|           | 04/22/98 | 1175.16           | 67.05          | 1108.11               |
|           | 07/29/98 | 1175.16           | 67.38          | 1107.78               |
|           | 10/15/98 | 1175.16           | 68.03          | 1107.13               |
|           | 04/07/99 | 1175.16           | 68.52          | 1106.64               |
| DM605-160 | 07/08/99 | 1175.16           | 69.4           | 1105.76               |
|           | 12/08/99 | 1175.16           | 70.05          | 1105.11               |
|           | 02/15/00 | 1175.16           | 69.89          | 1105.27               |
|           | 04/09/00 | 1175.16           | 70.22          | 1104.94               |
|           | 08/07/00 | 1175.16           | 70.87          | 1104.29               |
|           | 11/13/00 | 1175.16           | 69.96          | 1105.2                |
|           | 01/10/95 | 1175.16           | 59.56          | 1115.6                |
|           | 02/09/95 | 1175.16           | 60.89          | 1114.27               |
|           | 02/28/95 | 1175.16           | 61.12          | 1114.04               |
|           | 03/16/95 | 1175.16           | 61.58          | 1113.58               |
|           | 04/04/95 | 1175.16           | 60.89          | 1114.27               |
| DM605-170 | 05/02/95 | 1175.16           | 61.96          | 1113.2                |
|           | 06/15/95 | 1175.16           | 62.45          | 1112.71               |
|           | 07/19/95 | 1175.16           | 60.93          | 1114.23               |
|           | 08/04/95 | 1175.16           | 61.92          | 1113.24               |
|           | 09/28/95 | 1175.16           | 61.57          | 1113.59               |
|           | 10/19/95 | 1175.16           | 62.61          | 1112.55               |
|           | 11/28/95 | 1175.16           | 62.85          | 1112.31               |
|           | 12/26/95 | 1175.16           | 61.63          | 1113.53               |
|           | 01/25/96 | 1175.16           | 61.68          | 1113.48               |
|           | 02/08/96 | 1175.16           | 62.38          | 1112.78               |
|           | 03/23/96 | 1175.16           | 63.33          | 1111.83               |
| DM605-170 | 04/17/96 | 1175.16           | 64.43          | 1110.73               |
|           | 05/16/96 | 1175.16           | 64.11          | 1111.05               |
|           | 06/12/96 | 1175.16           | 64.72          | 1110.44               |
|           | 07/09/96 | 1175.16           | 64.69          | 1110.47               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM605-170 | 07/23/96 | 1175.16           | 64.58          | 1110.58               |
|           | 08/15/96 | 1175.16           | 65.93          | 1109.23               |
|           | 09/10/96 | 1175.16           | 65.31          | 1109.85               |
|           | 10/16/96 | 1175.16           | 65.88          | 1109.28               |
|           | 11/21/96 | 1175.16           | 66.63          | 1108.53               |
|           | 12/16/96 | 1175.16           | 65.79          | 1109.37               |
|           | 01/17/97 | 1175.16           | 65.99          | 1109.17               |
|           | 01/30/97 | 1175.16           | 67.97          | 1107.19               |
|           | 02/19/97 | 1175.16           | 66.34          | 1108.82               |
|           | 03/25/97 | 1175.16           | 66.56          | 1108.6                |
|           | 04/10/97 | 1175.16           | 66.75          | 1108.41               |
|           | 05/27/97 | 1175.16           | 66.88          | 1108.28               |
|           | 06/11/97 | 1175.16           | 67.1           | 1108.06               |
|           | 07/31/97 | 1175.16           | 67.42          | 1107.74               |
|           | 08/15/97 | 1175.16           | 66.56          | 1108.6                |
|           | 08/27/97 | 1175.16           | 66.93          | 1108.23               |
|           | 09/29/97 | 1175.16           | 67.1           | 1108.06               |
|           | 10/14/97 | 1175.16           | 67.13          | 1108.03               |
|           | 11/28/97 | 1175.16           | 67.23          | 1107.93               |
|           | 12/11/97 | 1175.16           | 67.58          | 1107.58               |
|           | 12/30/97 | 1175.16           | 66.4           | 1108.76               |
|           | 01/27/98 | 1175.16           | 67.16          | 1108                  |
|           | 04/22/98 | 1175.16           | 66.92          | 1108.24               |
|           | 07/29/98 | 1175.16           | 67.32          | 1107.84               |
|           | 10/15/98 | 1175.16           | 68.19          | 1106.97               |
|           | 04/07/99 | 1175.16           | 68.27          | 1106.89               |
|           | 07/08/99 | 1175.16           | 69.03          | 1106.13               |
|           | 12/08/99 | 1175.16           | 69.88          | 1105.28               |
|           | 02/15/00 | 1175.16           | 69.91          | 1105.25               |
|           | 04/09/00 | 1175.16           | 70.18          | 1104.98               |
|           | 08/07/00 | 1175.16           | 70.74          | 1104.42               |
|           | 11/13/00 | 1175.16           | 69.91          | 1105.25               |
| DM605-200 | 01/17/97 | 1175.16           | 63.48          | 1111.68               |
|           | 01/30/97 | 1175.16           | 65.49          | 1109.67               |
|           | 02/19/97 | 1175.16           | 63.94          | 1111.22               |
|           | 03/25/97 | 1175.16           | 64.26          | 1110.9                |
|           | 04/10/97 | 1175.16           | 64.4           | 1110.76               |
|           | 05/27/97 | 1175.16           | 64.54          | 1110.62               |
|           | 06/11/97 | 1175.16           | 64.69          | 1110.47               |
|           | 07/31/97 | 1175.16           | 65.09          | 1110.07               |
|           | 08/15/97 | 1175.16           | 64.39          | 1110.77               |
|           | 08/27/97 | 1175.16           | 64.57          | 1110.59               |
|           | 09/29/97 | 1175.16           | 64.85          | 1110.31               |
|           | 10/14/97 | 1175.16           | 64.84          | 1110.32               |
|           | 11/28/97 | 1175.16           | 64.81          | 1110.35               |
|           | 12/11/97 | 1175.16           | 65.38          | 1109.78               |
|           | 12/30/97 | 1175.16           | 64.05          | 1111.11               |
|           | 01/27/98 | 1175.16           | 64.78          | 1110.38               |
|           | 04/22/98 | 1175.16           | 64.83          | 1110.33               |
|           | 07/29/98 | 1175.16           | 65.09          | 1110.07               |
|           | 10/15/98 | 1175.16           | 65.58          | 1109.58               |
|           | 04/07/99 | 1175.16           | 65.34          | 1109.82               |
|           | 07/08/99 | 1175.16           | 66.84          | 1108.32               |
|           | 12/08/99 | 1175.16           | 67.67          | 1107.49               |
|           | 02/15/00 | 1175.16           | 67.51          | 1107.65               |
|           | 04/09/00 | 1175.16           | 67.78          | 1107.38               |
|           | 08/07/00 | 1175.16           | 68.56          | 1106.6                |
|           | 11/13/00 | 1175.16           | 66.93          | 1108.23               |
| DM605-240 | 01/10/95 | 1175.16           | 56.81          | 1118.35               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM605-240 | 02/09/95 | 1175.16           | 58.3           | 1116.86               |
|           | 02/28/95 | 1175.16           | 58.45          | 1116.71               |
|           | 03/16/95 | 1175.16           | 59.03          | 1116.13               |
|           | 04/04/95 | 1175.16           | 58.29          | 1116.87               |
|           | 05/02/95 | 1175.16           | 59.52          | 1115.64               |
|           | 06/15/95 | 1175.16           | 59.91          | 1115.25               |
|           | 07/19/95 | 1175.16           | 58.37          | 1116.79               |
|           | 08/04/95 | 1175.16           | 59.31          | 1115.85               |
|           | 09/28/95 | 1175.16           | 58.8           | 1116.36               |
|           | 10/19/95 | 1175.16           | 60.09          | 1115.07               |
|           | 11/28/95 | 1175.16           | 60.31          | 1114.85               |
|           | 12/26/95 | 1175.16           | 58.75          | 1116.41               |
|           | 01/25/96 | 1175.16           | 58.77          | 1116.39               |
|           | 02/08/96 | 1175.16           | 59.7           | 1115.46               |
|           | 03/23/96 | 1175.16           | 60.76          | 1114.4                |
|           | 04/17/96 | 1175.16           | 62.32          | 1112.84               |
|           | 05/16/96 | 1175.16           | 61.89          | 1113.27               |
|           | 06/12/96 | 1175.16           | 62.57          | 1112.59               |
|           | 07/09/96 | 1175.16           | 62.58          | 1112.58               |
|           | 07/23/96 | 1175.16           | 62.36          | 1112.8                |
|           | 08/15/96 | 1175.16           | 63.42          | 1111.74               |
|           | 09/10/96 | 1175.16           | 62.98          | 1112.18               |
|           | 10/16/96 | 1175.16           | 63.29          | 1111.87               |
|           | 11/21/96 | 1175.16           | 64.17          | 1110.99               |
|           | 12/16/96 | 1175.16           | 63.67          | 1111.49               |
|           | 01/17/97 | 1175.16           | 63.34          | 1111.82               |
|           | 01/30/97 | 1175.16           | 65.43          | 1109.73               |
|           | 02/19/97 | 1175.16           | 63.98          | 1111.18               |
|           | 03/25/97 | 1175.16           | 64.12          | 1111.04               |
|           | 04/10/97 | 1175.16           | 64.35          | 1110.81               |
|           | 05/27/97 | 1175.16           | 64.41          | 1110.75               |
|           | 06/11/97 | 1175.16           | 64.68          | 1110.48               |
|           | 07/31/97 | 1175.16           | 65.02          | 1110.14               |
|           | 08/15/97 | 1175.16           | 63.89          | 1111.27               |
|           | 08/27/97 | 1175.16           | 64.2           | 1110.96               |
|           | 09/29/97 | 1175.16           | 64.49          | 1110.67               |
|           | 10/14/97 | 1175.16           | 64.52          | 1110.64               |
|           | 11/28/97 | 1175.16           | 64.48          | 1110.68               |
|           | 12/11/97 | 1175.16           | 64.94          | 1110.22               |
|           | 12/30/97 | 1175.16           | 63.42          | 1111.74               |
|           | 01/27/98 | 1175.16           | 64.43          | 1110.73               |
|           | 04/22/98 | 1175.16           | 64.18          | 1110.98               |
|           | 07/29/98 | 1175.16           | 64.39          | 1110.77               |
|           | 10/15/98 | 1175.16           | 65.04          | 1110.12               |
|           | 04/07/99 | 1175.16           | 65.73          | 1109.43               |
|           | 07/08/99 | 1175.16           | 66.61          | 1108.55               |
|           | 12/08/99 | 1175.16           | 67.38          | 1107.78               |
|           | 02/15/00 | 1175.16           | 62.21          | 1112.95               |
|           | 04/09/00 | 1175.16           | 67.43          | 1107.73               |
|           | 08/07/00 | 1175.16           | 68.07          | 1107.09               |
|           | 11/13/00 | 1175.16           | 67.2           | 1107.96               |
| DM605-265 | 01/17/97 | 1175.16           | 63.39          | 1111.77               |
|           | 01/30/97 | 1175.16           | 65.4           | 1109.76               |
|           | 02/19/97 | 1175.16           | 63.94          | 1111.22               |
|           | 03/25/97 | 1175.16           | 64.15          | 1111.01               |
|           | 04/10/97 | 1175.16           | 64.32          | 1110.84               |
|           | 05/27/97 | 1175.16           | 64.45          | 1110.71               |
|           | 06/11/97 | 1175.16           | 64.71          | 1110.45               |
|           | 07/31/97 | 1175.16           | 65             | 1110.16               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM605-265 | 08/15/97 | 1175.16           | 63.86          | 1111.3                |
|           | 08/27/97 | 1175.16           | 64.14          | 1111.02               |
|           | 09/29/97 | 1175.16           | 64.47          | 1110.69               |
|           | 10/14/97 | 1175.16           | 64.51          | 1110.65               |
|           | 11/28/97 | 1175.16           | 64.44          | 1110.72               |
|           | 12/11/97 | 1175.16           | 64.94          | 1110.22               |
|           | 12/30/97 | 1175.16           | 63.24          | 1111.92               |
|           | 01/27/98 | 1175.16           | 64.41          | 1110.75               |
|           | 04/22/98 | 1175.16           | 64.15          | 1111.01               |
|           | 07/29/98 | 1175.16           | 64.43          | 1110.73               |
|           | 10/15/98 | 1175.16           | 65.08          | 1110.08               |
|           | 04/07/99 | 1175.16           | 65.73          | 1109.43               |
|           | 07/08/99 | 1175.16           | 66.61          | 1108.55               |
|           | 12/08/99 | 1175.16           | 67.34          | 1107.82               |
|           | 02/15/00 | 1175.16           | 67.19          | 1107.97               |
|           | 04/09/00 | 1175.16           | 67.41          | 1107.75               |
|           | 08/07/00 | 1175.16           | 68.06          | 1107.1                |
|           | 11/13/00 | 1175.16           | 67.22          | 1107.94               |
| DM605-290 | 01/10/95 | 1175.16           | 56.77          | 1118.39               |
|           | 02/09/95 | 1175.16           | 58.23          | 1116.93               |
|           | 02/28/95 | 1175.16           | 58.35          | 1116.81               |
|           | 03/16/95 | 1175.16           | 58.95          | 1116.21               |
|           | 04/04/95 | 1175.16           | 58.17          | 1116.99               |
|           | 05/02/95 | 1175.16           | 59.54          | 1115.62               |
|           | 06/15/95 | 1175.16           | 59.86          | 1115.3                |
|           | 07/19/95 | 1175.16           | 58.33          | 1116.83               |
|           | 08/04/95 | 1175.16           | 59.1           | 1116.06               |
|           | 09/28/95 | 1175.16           | 58.79          | 1116.37               |
|           | 10/19/95 | 1175.16           | 60.06          | 1115.1                |
|           | 11/28/95 | 1175.16           | 60.23          | 1114.93               |
|           | 12/26/95 | 1175.16           | 58.72          | 1116.44               |
|           | 01/25/96 | 1175.16           | 58.96          | 1116.2                |
|           | 02/08/96 | 1175.16           | 59.79          | 1115.37               |
|           | 03/23/96 | 1175.16           | 60.77          | 1114.39               |
|           | 04/17/96 | 1175.16           | 62.3           | 1112.86               |
|           | 05/16/96 | 1175.16           | 61.87          | 1113.29               |
|           | 06/12/96 | 1175.16           | 62.46          | 1112.7                |
|           | 07/09/96 | 1175.16           | 62.52          | 1112.64               |
|           | 07/23/96 | 1175.16           | 62.3           | 1112.86               |
|           | 08/15/96 | 1175.16           | 63.4           | 1111.76               |
|           | 09/10/96 | 1175.16           | 62.91          | 1112.25               |
|           | 10/16/96 | 1175.16           | 63.6           | 1111.56               |
|           | 11/21/96 | 1175.16           | 64.2           | 1110.96               |
|           | 12/16/96 | 1175.16           | 63.71          | 1111.45               |
|           | 01/17/97 | 1175.16           | 63.68          | 1111.48               |
|           | 01/30/97 | 1175.16           | 65.37          | 1109.79               |
|           | 02/19/97 | 1175.16           | 65.44          | 1109.72               |
|           | 03/25/97 | 1175.16           | 64.13          | 1111.03               |
|           | 04/10/97 | 1175.16           | 64.34          | 1110.82               |
|           | 05/27/97 | 1175.16           | 64.45          | 1110.71               |
|           | 06/11/97 | 1175.16           | 64.72          | 1110.44               |
|           | 07/31/97 | 1175.16           | 65.01          | 1110.15               |
|           | 08/15/97 | 1175.16           | 63.84          | 1111.32               |
|           | 08/27/97 | 1175.16           | 64.16          | 1111                  |
|           | 09/29/97 | 1175.16           | 64.48          | 1110.68               |
|           | 10/14/97 | 1175.16           | 64.5           | 1110.66               |
|           | 11/28/97 | 1175.16           | 64.44          | 1110.72               |
|           | 12/11/97 | 1175.16           | 64.94          | 1110.22               |
|           | 12/30/97 | 1175.16           | 63.35          | 1111.81               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM605-290 | 01/27/98 | 1175.16           | 64.36          | 1110.8                |
|           | 04/22/98 | 1175.16           | 64.12          | 1111.04               |
|           | 07/29/98 | 1175.16           | 64.36          | 1110.8                |
|           | 10/15/98 | 1175.16           | 65.11          | 1110.05               |
|           | 04/07/99 | 1175.16           | 65.72          | 1109.44               |
|           | 07/08/99 | 1175.16           | 66.53          | 1108.63               |
|           | 12/08/99 | 1175.16           | 67.31          | 1107.85               |
|           | 02/15/00 | 1175.16           | 67.16          | 1108                  |
|           | 04/09/00 | 1175.16           | 67.38          | 1107.78               |
|           | 08/07/00 | 1175.16           | 68.06          | 1107.1                |
|           | 11/13/00 | 1175.16           | 67.41          | 1107.75               |
| DM606-045 | 01/11/95 | 1194.66           | 37.22          | 1157.44               |
|           | 02/09/95 | 1194.66           | 37.45          | 1157.21               |
|           | 02/28/95 | 1194.66           | 36.79          | 1157.87               |
|           | 03/15/95 | 1194.66           | 36.26          | 1158.4                |
|           | 04/04/95 | 1194.66           | 34.44          | 1160.22               |
|           | 05/03/95 | 1194.66           | 35.71          | 1158.95               |
|           | 06/20/95 | 1194.66           | 36.52          | 1158.14               |
|           | 07/20/95 | 1194.66           | 36.29          | 1158.37               |
|           | 08/04/95 | 1194.66           | 36.13          | 1158.53               |
|           | 09/28/95 | 1194.66           | 35.34          | 1159.32               |
|           | 10/23/95 | 1194.66           | 36.31          | 1158.35               |
|           | 11/27/95 | 1194.66           | 36.95          | 1157.71               |
|           | 12/26/95 | 1194.66           | 36.31          | 1158.35               |
|           | 01/24/96 | 1194.66           | 38.07          | 1156.59               |
|           | 02/08/96 | 1194.66           | 38.33          | 1156.33               |
|           | 03/28/96 | 1194.66           | 39.43          | 1155.23               |
|           | 04/03/96 | 1194.66           | 34.82          | 1159.84               |
|           | 04/18/96 | 1194.66           | 31.27          | 1163.39               |
|           | 05/30/96 | 1194.66           | 38.28          | 1156.38               |
|           | 06/12/96 | 1194.66           | 38.48          | 1156.18               |
|           | 07/09/96 | 1194.66           | 38.41          | 1156.25               |
|           | 07/24/96 | 1194.66           | 38.11          | 1156.55               |
|           | 08/15/96 | 1194.66           | 38.32          | 1156.34               |
|           | 10/16/96 | 1194.66           | 38.34          | 1156.32               |
|           | 11/29/96 | 1194.66           | 35.42          | 1159.24               |
|           | 12/05/96 | 1194.66           | 36.69          | 1157.97               |
|           | 12/31/96 | 1194.66           | 35.49          | 1159.17               |
|           | 01/17/97 | 1194.66           | 37.67          | 1156.99               |
|           | 02/03/97 | 1194.66           | 39.36          | 1155.3                |
|           | 02/19/97 | 1194.66           | 38.35          | 1156.31               |
|           | 03/25/97 | 1194.66           | 39.3           | 1155.36               |
|           | 04/10/97 | 1194.66           | 39.85          | 1154.81               |
|           | 05/23/97 | 1194.66           | 40.46          | 1154.2                |
|           | 06/18/97 | 1194.66           | 40.51          | 1154.15               |
|           | 07/30/97 | 1194.66           | 40.94          | 1153.72               |
|           | 08/18/97 | 1194.66           | 40.95          | 1153.71               |
|           | 08/27/97 | 1194.66           | 40.74          | 1153.92               |
|           | 09/30/97 | 1194.66           | 41.03          | 1153.63               |
|           | 10/14/97 | 1194.66           | 41.29          | 1153.37               |
|           | 11/28/97 | 1194.66           | 40.18          | 1154.48               |
|           | 12/17/97 | 1194.66           | 39.68          | 1154.98               |
|           | 01/27/98 | 1194.66           | 40.55          | 1154.11               |
|           | 04/17/98 | 1194.66           | 41.38          | 1153.28               |
|           | 08/06/98 | 1194.66           | 38.39          | 1156.27               |
|           | 04/08/99 | 1194.66           | 45.35          | 1149.31               |
|           | 07/08/99 | 1194.66           | 43.39          | 1151.27               |
|           | 10/28/99 | 1194.66           | 45.47          | 1149.19               |
| DM606-075 | 12/05/96 | 1194.66           | 37.24          | 1157.42               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM606-075 | 01/17/97 | 1194.66           | 37.87          | 1156.79               |
|           | 02/03/97 | 1194.66           | 39.52          | 1155.14               |
|           | 02/19/97 | 1194.66           | 37.51          | 1157.15               |
|           | 03/25/97 | 1194.66           | 39.08          | 1155.58               |
|           | 04/10/97 | 1194.66           | 39.49          | 1155.17               |
|           | 05/23/97 | 1194.66           | 40.05          | 1154.61               |
|           | 06/18/97 | 1194.66           | 36.73          | 1157.93               |
|           | 07/30/97 | 1194.66           | 40.42          | 1154.24               |
|           | 08/15/97 | 1194.66           | 56.23          | 1138.43               |
|           | 08/18/97 | 1194.66           | 40.38          | 1154.28               |
|           | 08/27/97 | 1194.66           | 39.26          | 1155.4                |
|           | 09/30/97 | 1194.66           | 40.4           | 1154.26               |
|           | 10/14/97 | 1194.66           | 40.7           | 1153.96               |
|           | 11/28/97 | 1194.66           | 40.01          | 1154.65               |
|           | 12/17/97 | 1194.66           | 39.41          | 1155.25               |
|           | 01/27/98 | 1194.66           | 40.03          | 1154.63               |
|           | 04/17/98 | 1194.66           | 40.93          | 1153.73               |
|           | 08/06/98 | 1194.66           | 38.53          | 1156.13               |
|           | 10/19/98 | 1194.66           | 39.18          | 1155.48               |
|           | 04/08/99 | 1194.66           | 43.97          | 1150.69               |
|           | 07/08/99 | 1194.66           | 46.27          | 1148.39               |
|           | 10/28/99 | 1194.66           | 44.07          | 1150.59               |
|           | 02/16/00 | 1194.66           | 45.93          | 1148.73               |
|           | 04/08/00 | 1194.66           | 46.92          | 1147.74               |
|           | 08/07/00 | 1194.66           | 46.97          | 1147.69               |
|           | 11/08/00 | 1194.66           | 45.94          | 1148.72               |
| DM606-102 | 01/11/95 | 1194.66           | 37.27          | 1157.39               |
|           | 02/09/95 | 1194.66           | 37.55          | 1157.11               |
|           | 02/28/95 | 1194.66           | 37.19          | 1157.47               |
|           | 03/15/95 | 1194.66           | 36.79          | 1157.87               |
|           | 04/04/95 | 1194.66           | 36.01          | 1158.65               |
|           | 05/03/95 | 1194.66           | 36.51          | 1158.15               |
|           | 06/20/95 | 1194.66           | 37.16          | 1157.5                |
|           | 07/20/95 | 1194.66           | 37.2           | 1157.46               |
|           | 08/04/95 | 1194.66           | 36.89          | 1157.77               |
|           | 09/28/95 | 1194.66           | 36.09          | 1158.57               |
|           | 10/23/95 | 1194.66           | 37.05          | 1157.61               |
|           | 11/27/95 | 1194.66           | 37.28          | 1157.38               |
|           | 12/26/95 | 1194.66           | 37.1           | 1157.56               |
|           | 01/24/96 | 1194.66           | 38.32          | 1156.34               |
|           | 02/08/96 | 1194.66           | 38.29          | 1156.37               |
|           | 03/28/96 | 1194.66           | 39.03          | 1155.63               |
|           | 04/03/96 | 1194.66           | 39.26          | 1155.4                |
|           | 04/18/96 | 1194.66           | 39.18          | 1155.48               |
|           | 05/30/96 | 1194.66           | 38.53          | 1156.13               |
|           | 06/12/96 | 1194.66           | 38.64          | 1156.02               |
|           | 07/09/96 | 1194.66           | 38.64          | 1156.02               |
|           | 07/24/96 | 1194.66           | 38.14          | 1156.52               |
|           | 08/15/96 | 1194.66           | 38.28          | 1156.38               |
|           | 09/11/96 | 1194.66           | 37.33          | 1157.33               |
|           | 10/16/96 | 1194.66           | 38.25          | 1156.41               |
|           | 11/29/96 | 1194.66           | 36.35          | 1158.31               |
|           | 12/05/96 | 1194.66           | 37.92          | 1156.74               |
|           | 12/31/96 | 1194.66           | 36.5           | 1158.16               |
|           | 01/17/97 | 1194.66           | 38.4           | 1156.26               |
|           | 02/03/97 | 1194.66           | 39.96          | 1154.7                |
|           | 02/19/97 | 1194.66           | 38.91          | 1155.75               |
|           | 03/25/97 | 1194.66           | 39.53          | 1155.13               |
|           | 04/10/97 | 1194.66           | 39.89          | 1154.77               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM606-102 | 05/23/97 | 1194.66           | 40.42          | 1154.24               |
|           | 06/18/97 | 1194.66           | 40.44          | 1154.22               |
|           | 07/30/97 | 1194.66           | 40.7           | 1153.96               |
|           | 08/15/97 | 1194.66           | 56.9           | 1137.76               |
|           | 08/18/97 | 1194.66           | 40.72          | 1153.94               |
|           | 08/27/97 | 1194.66           | 40.58          | 1154.08               |
|           | 09/30/97 | 1194.66           | 40.68          | 1153.98               |
|           | 10/14/97 | 1194.66           | 41.01          | 1153.65               |
|           | 11/28/97 | 1194.66           | 40.41          | 1154.25               |
|           | 12/17/97 | 1194.66           | 39.98          | 1154.68               |
|           | 01/27/98 | 1194.66           | 40.37          | 1154.29               |
|           | 04/17/98 | 1194.66           | 41.24          | 1153.42               |
|           | 08/06/98 | 1194.66           | 39.2           | 1155.46               |
|           | 10/19/98 | 1194.66           | 39.5           | 1155.16               |
|           | 04/08/99 | 1194.66           | 43.92          | 1150.74               |
|           | 07/08/99 | 1194.66           | 43.33          | 1151.33               |
|           | 10/28/99 | 1194.66           | 43.98          | 1150.68               |
|           | 02/16/00 | 1194.66           | 45.79          | 1148.87               |
|           | 04/08/00 | 1194.66           | 46.39          | 1148.27               |
|           | 08/07/00 | 1194.66           | 46.62          | 1148.04               |
|           | 11/08/00 | 1194.66           | 45.77          | 1148.89               |
| DM606-185 | 01/11/95 | 1194.66           | 40.05          | 1154.61               |
|           | 02/09/95 | 1194.66           | 40.31          | 1154.35               |
|           | 02/28/95 | 1194.66           | 40.04          | 1154.62               |
|           | 03/15/95 | 1194.66           | 39.7           | 1154.96               |
|           | 04/04/95 | 1194.66           | 39.42          | 1155.24               |
|           | 05/03/95 | 1194.66           | 39.5           | 1155.16               |
|           | 06/20/95 | 1194.66           | 40.09          | 1154.57               |
|           | 07/20/95 | 1194.66           | 40.25          | 1154.41               |
|           | 08/04/95 | 1194.66           | 39.9           | 1154.76               |
|           | 09/28/95 | 1194.66           | 39.13          | 1155.53               |
|           | 10/23/95 | 1194.66           | 39.82          | 1154.84               |
|           | 11/27/95 | 1194.66           | 39.87          | 1154.79               |
|           | 12/26/95 | 1194.66           | 39.84          | 1154.82               |
|           | 01/24/96 | 1194.66           | 41.07          | 1153.59               |
|           | 02/08/96 | 1194.66           | 41.1           | 1153.56               |
|           | 03/28/96 | 1194.66           | 41.82          | 1152.84               |
|           | 04/03/96 | 1194.66           | 41.95          | 1152.71               |
|           | 04/18/96 | 1194.66           | 41.99          | 1152.67               |
|           | 05/30/96 | 1194.66           | 41.52          | 1153.14               |
|           | 06/12/96 | 1194.66           | 41.49          | 1153.17               |
|           | 07/09/96 | 1194.66           | 41.47          | 1153.19               |
|           | 07/24/96 | 1194.66           | 40.77          | 1153.89               |
|           | 08/15/96 | 1194.66           | 40.77          | 1153.89               |
|           | 09/11/96 | 1194.66           | 40.16          | 1154.5                |
|           | 10/16/96 | 1194.66           | 40.8           | 1153.86               |
|           | 11/29/96 | 1194.66           | 39.54          | 1155.12               |
|           | 12/05/96 | 1194.66           | 41.13          | 1153.53               |
|           | 12/31/96 | 1194.66           | 39.62          | 1155.04               |
|           | 01/17/97 | 1194.66           | 41.45          | 1153.21               |
|           | 02/03/97 | 1194.66           | 49.82          | 1144.84               |
|           | 02/19/97 | 1194.66           | 41.9           | 1152.76               |
|           | 03/25/97 | 1194.66           | 42.43          | 1152.23               |
|           | 04/10/97 | 1194.66           | 35.64          | 1159.02               |
|           | 05/23/97 | 1194.66           | 43.23          | 1151.43               |
|           | 06/18/97 | 1194.66           | 43.25          | 1151.41               |
|           | 07/30/97 | 1194.66           | 43.88          | 1150.78               |
|           | 08/15/97 | 1194.66           | 60.67          | 1133.99               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM606-185 | 08/27/97 | 1194.66           | 43.28          | 1151.38               |
|           | 09/30/97 | 1194.66           | 43.45          | 1151.21               |
|           | 10/14/97 | 1194.66           | 43.8           | 1150.86               |
|           | 11/28/97 | 1194.66           | 38.73          | 1155.93               |
|           | 12/17/97 | 1194.66           | 42.94          | 1151.72               |
|           | 12/18/97 | 1194.66           | 41.93          | 1152.73               |
|           | 01/27/98 | 1194.66           | 43.18          | 1151.48               |
|           | 04/17/98 | 1194.66           | 43.9           | 1150.76               |
|           | 08/06/98 | 1194.66           | 42.22          | 1152.44               |
|           | 10/19/98 | 1194.66           | 42             | 1152.66               |
|           | 04/08/99 | 1194.66           | 46.47          | 1148.19               |
|           | 07/08/99 | 1194.66           | 46.35          | 1148.31               |
|           | 10/28/99 | 1194.66           | 46.51          | 1148.15               |
|           | 02/16/00 | 1194.66           | 48             | 1146.66               |
|           | 04/08/00 | 1194.66           | 48.46          | 1146.2                |
| DM606-210 | 08/07/00 | 1194.66           | 48.63          | 1146.03               |
|           | 11/08/00 | 1194.66           | 48.16          | 1146.5                |
|           | 12/05/96 | 1194.66           | 41.26          | 1153.4                |
|           | 01/17/97 | 1194.66           | 41.4           | 1153.26               |
|           | 02/03/97 | 1194.66           | 42.83          | 1151.83               |
|           | 02/19/97 | 1194.66           | 41.75          | 1152.91               |
|           | 03/25/97 | 1194.66           | 42.35          | 1152.31               |
|           | 04/10/97 | 1194.66           | 42.43          | 1152.23               |
|           | 05/23/97 | 1194.66           | 43.11          | 1151.55               |
|           | 06/18/97 | 1194.66           | 43.11          | 1151.55               |
|           | 07/30/97 | 1194.66           | 43.35          | 1151.31               |
|           | 08/15/97 | 1194.66           | 60.51          | 1134.15               |
|           | 08/18/97 | 1194.66           | 43.18          | 1151.48               |
|           | 08/27/97 | 1194.66           | 43.08          | 1151.58               |
|           | 09/30/97 | 1194.66           | 43.25          | 1151.41               |
| DM606-250 | 10/14/97 | 1194.66           | 43.61          | 1151.05               |
|           | 11/28/97 | 1194.66           | 43.15          | 1151.51               |
|           | 12/17/97 | 1194.66           | 42.78          | 1151.88               |
|           | 01/27/98 | 1194.66           | 43.04          | 1151.62               |
|           | 04/17/98 | 1194.66           | 43.73          | 1150.93               |
|           | 08/06/98 | 1194.66           | 42.2           | 1152.46               |
|           | 10/19/98 | 1194.66           | 42             | 1152.66               |
|           | 04/08/99 | 1194.66           | 46.24          | 1148.42               |
|           | 07/08/99 | 1194.66           | 46.11          | 1148.55               |
|           | 10/28/99 | 1194.66           | 46.33          | 1148.33               |
|           | 02/16/00 | 1194.66           | 47.73          | 1146.93               |
|           | 04/08/00 | 1194.66           | 48.21          | 1146.45               |
|           | 08/07/00 | 1194.66           | 48.42          | 1146.24               |
|           | 11/08/00 | 1194.66           | 47.92          | 1146.74               |
|           | 01/11/95 | 1194.66           | 40.69          | 1153.97               |
| DM606-250 | 02/09/95 | 1194.66           | 40.96          | 1153.7                |
|           | 02/28/95 | 1194.66           | 40.77          | 1153.89               |
|           | 03/15/95 | 1194.66           | 40.48          | 1154.18               |
|           | 04/04/95 | 1194.66           | 40.25          | 1154.41               |
|           | 05/03/95 | 1194.66           | 40.35          | 1154.31               |
|           | 06/20/95 | 1194.66           | 40.96          | 1153.7                |
|           | 07/20/95 | 1194.66           | 41.08          | 1153.58               |
|           | 08/04/95 | 1194.66           | 40.76          | 1153.9                |
|           | 09/28/95 | 1194.66           | 39.93          | 1154.73               |
|           | 10/23/95 | 1194.66           | 40.68          | 1153.98               |
|           | 11/27/95 | 1194.66           | 40.67          | 1153.99               |
|           | 12/26/95 | 1194.66           | 40.72          | 1153.94               |
|           | 01/24/96 | 1194.66           | 41.73          | 1152.93               |
|           | 02/08/96 | 1194.66           | 41.84          | 1152.82               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM606-250 | 03/28/96 | 1194.66           | 42.56          | 1152.1                |
|           | 04/03/96 | 1194.66           | 42.72          | 1151.94               |
|           | 04/18/96 | 1194.66           | 42.75          | 1151.91               |
|           | 05/30/96 | 1194.66           | 42.38          | 1152.28               |
|           | 06/12/96 | 1194.66           | 42.38          | 1152.28               |
|           | 07/09/96 | 1194.66           | 42.33          | 1152.33               |
|           | 07/24/96 | 1194.66           | 41.65          | 1153.01               |
|           | 08/15/96 | 1194.66           | 41.71          | 1152.95               |
|           | 09/11/96 | 1194.66           | 41.15          | 1153.51               |
|           | 10/16/96 | 1194.66           | 41.78          | 1152.88               |
|           | 11/29/96 | 1194.66           | 40.65          | 1154.01               |
|           | 12/05/96 | 1194.66           | 42.24          | 1152.42               |
|           | 12/31/96 | 1194.66           | 40.7           | 1153.96               |
|           | 01/17/97 | 1194.66           | 42.37          | 1152.29               |
|           | 02/03/97 | 1194.66           | 43.74          | 1150.92               |
|           | 02/19/97 | 1194.66           | 42.69          | 1151.97               |
|           | 03/25/97 | 1194.66           | 43.3           | 1151.36               |
|           | 04/10/97 | 1194.66           | 43.36          | 1151.3                |
|           | 05/23/97 | 1194.66           | 43.96          | 1150.7                |
|           | 06/18/97 | 1194.66           | 43.99          | 1150.67               |
|           | 07/30/97 | 1194.66           | 44.16          | 1150.5                |
|           | 08/15/97 | 1194.66           | 61.31          | 1133.35               |
|           | 08/18/97 | 1194.66           | 44.04          | 1150.62               |
|           | 08/27/97 | 1194.66           | 44             | 1150.66               |
|           | 09/30/97 | 1194.66           | 44.16          | 1150.5                |
|           | 10/14/97 | 1194.66           | 44.46          | 1150.2                |
|           | 11/28/97 | 1194.66           | 44.05          | 1150.61               |
|           | 12/17/97 | 1194.66           | 43.75          | 1150.91               |
|           | 12/18/97 | 1194.66           | 42.14          | 1152.52               |
|           | 01/27/98 | 1194.66           | 43.94          | 1150.72               |
|           | 04/17/98 | 1194.66           | 44.57          | 1150.09               |
|           | 08/06/98 | 1194.66           | 43.07          | 1151.59               |
|           | 10/19/98 | 1194.66           | 42.82          | 1151.84               |
|           | 04/08/99 | 1194.66           | 47.04          | 1147.62               |
|           | 07/08/99 | 1194.66           | 46.64          | 1148.02               |
|           | 10/28/99 | 1194.66           | 47.19          | 1147.47               |
|           | 02/16/00 | 1194.66           | 48.59          | 1146.07               |
|           | 04/08/00 | 1194.66           | 49             | 1145.66               |
|           | 08/07/00 | 1194.66           | 49.22          | 1145.44               |
|           | 11/08/00 | 1194.66           | 48.76          | 1145.9                |
| DM606-285 | 12/05/96 | 1194.66           | 42.95          | 1151.71               |
|           | 01/17/97 | 1194.66           | 43.08          | 1151.58               |
|           | 02/03/97 | 1194.66           | 44.43          | 1150.23               |
|           | 02/19/97 | 1194.66           | 43.43          | 1151.23               |
|           | 03/25/97 | 1194.66           | 43.96          | 1150.7                |
|           | 04/10/97 | 1194.66           | 44.05          | 1150.61               |
|           | 05/23/97 | 1194.66           | 44.67          | 1149.99               |
|           | 06/18/97 | 1194.66           | 44.64          | 1150.02               |
|           | 07/30/97 | 1194.66           | 44.88          | 1149.78               |
|           | 08/15/97 | 1194.66           | 61.94          | 1132.72               |
|           | 08/18/97 | 1194.66           | 44.62          | 1150.04               |
|           | 08/27/97 | 1194.66           | 44.61          | 1150.05               |
|           | 09/30/97 | 1194.66           | 44.83          | 1149.83               |
|           | 10/14/97 | 1194.66           | 45.14          | 1149.52               |
|           | 11/28/97 | 1194.66           | 42.45          | 1152.21               |
|           | 12/17/97 | 1194.66           | 44.43          | 1150.23               |
|           | 01/27/98 | 1194.66           | 44.6           | 1150.06               |
|           | 04/17/98 | 1194.66           | 45.16          | 1149.5                |
|           | 08/06/98 | 1194.66           | 43.81          | 1150.85               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM606-285 | 10/19/98 | 1194.66           | 43.48          | 1151.18               |
|           | 04/08/99 | 1194.66           | 47.75          | 1146.91               |
|           | 07/08/99 | 1194.66           | 47.31          | 1147.35               |
|           | 10/28/99 | 1194.66           | 47.91          | 1146.75               |
|           | 02/16/00 | 1194.66           | 49.26          | 1145.4                |
|           | 04/08/00 | 1194.66           | 49.65          | 1145.01               |
|           | 08/07/00 | 1194.66           | 49.9           | 1144.76               |
|           | 11/08/00 | 1194.66           | 49.49          | 1145.17               |
| DM606-330 | 01/11/95 | 1194.66           | 45.11          | 1149.55               |
|           | 02/09/95 | 1194.66           | 45.4           | 1149.26               |
|           | 02/28/95 | 1194.66           | 45.29          | 1149.37               |
|           | 03/15/95 | 1194.66           | 45.13          | 1149.53               |
|           | 04/04/95 | 1194.66           | 44.86          | 1149.8                |
|           | 05/03/95 | 1194.66           | 44.93          | 1149.73               |
|           | 06/20/95 | 1194.66           | 45.63          | 1149.03               |
|           | 07/20/95 | 1194.66           | 45.71          | 1148.95               |
|           | 08/04/95 | 1194.66           | 45.63          | 1149.03               |
|           | 09/28/95 | 1194.66           | 39.07          | 1155.59               |
|           | 10/23/95 | 1194.66           | 45.37          | 1149.29               |
|           | 11/27/95 | 1194.66           | 45.24          | 1149.42               |
|           | 12/26/95 | 1194.66           | 45.36          | 1149.3                |
|           | 01/24/96 | 1194.66           | 46.13          | 1148.53               |
|           | 02/08/96 | 1194.66           | 46.3           | 1148.36               |
|           | 03/28/96 | 1194.66           | 47.03          | 1147.63               |
|           | 04/03/96 | 1194.66           | 47.28          | 1147.38               |
|           | 04/18/96 | 1194.66           | 47.36          | 1147.3                |
|           | 05/30/96 | 1194.66           | 47.28          | 1147.38               |
|           | 06/12/96 | 1194.66           | 47.14          | 1147.52               |
|           | 07/09/96 | 1194.66           | 47.19          | 1147.47               |
|           | 07/24/96 | 1194.66           | 46.48          | 1148.18               |
|           | 08/15/96 | 1194.66           | 46.46          | 1148.2                |
|           | 09/11/96 | 1194.66           | 45.94          | 1148.72               |
|           | 10/16/96 | 1194.66           | 46.52          | 1148.14               |
|           | 11/29/96 | 1194.66           | 45.66          | 1149                  |
|           | 12/05/96 | 1194.66           | 47.28          | 1147.38               |
|           | 12/31/96 | 1194.66           | 45.59          | 1149.07               |
|           | 01/17/97 | 1194.66           | 47.03          | 1147.63               |
|           | 02/03/97 | 1194.66           | 48.4           | 1146.26               |
|           | 02/19/97 | 1194.66           | 47.29          | 1147.37               |
|           | 03/25/97 | 1194.66           | 47.77          | 1146.89               |
|           | 04/10/97 | 1194.66           | 47.8           | 1146.86               |
|           | 05/23/97 | 1194.66           | 48.38          | 1146.28               |
|           | 06/18/97 | 1194.66           | 48.36          | 1146.3                |
|           | 07/30/97 | 1194.66           | 48.5           | 1146.16               |
|           | 08/15/97 | 1194.66           | 65.52          | 1129.14               |
|           | 08/18/97 | 1194.66           | 48.15          | 1146.51               |
|           | 08/27/97 | 1194.66           | 48.2           | 1146.46               |
|           | 09/30/97 | 1194.66           | 48.51          | 1146.15               |
|           | 10/14/97 | 1194.66           | 48.79          | 1145.87               |
|           | 11/28/97 | 1194.66           | 48.57          | 1146.09               |
|           | 12/17/97 | 1194.66           | 48.3           | 1146.36               |
|           | 01/27/98 | 1194.66           | 48.43          | 1146.23               |
|           | 04/17/98 | 1194.66           | 48.58          | 1146.08               |
|           | 08/06/98 | 1194.66           | 47.66          | 1147                  |
|           | 10/19/98 | 1194.66           | 47.19          | 1147.47               |
|           | 04/08/99 | 1194.66           | 51.32          | 1143.34               |
|           | 07/08/99 | 1194.66           | 51.28          | 1143.38               |
|           | 10/28/99 | 1194.66           | 51.62          | 1143.04               |
|           | 02/16/00 | 1194.66           | 52.76          | 1141.9                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM606-330 | 04/08/00 | 1194.66           | 53.21          | 1141.45               |
|           | 08/07/00 | 1194.66           | 53.64          | 1141.02               |
|           | 11/08/00 | 1194.66           | 53.42          | 1141.24               |
| DM606-355 | 12/05/96 | 1194.66           | 47.88          | 1146.78               |
|           | 01/17/97 | 1194.66           | 47.73          | 1146.93               |
|           | 02/03/97 | 1194.66           | 62.82          | 1131.84               |
|           | 02/19/97 | 1194.66           | 47.91          | 1146.75               |
|           | 03/25/97 | 1194.66           | 48.32          | 1146.34               |
|           | 04/10/97 | 1194.66           | 48.34          | 1146.32               |
|           | 05/23/97 | 1194.66           | 48.92          | 1145.74               |
|           | 06/18/97 | 1194.66           | 48.97          | 1145.69               |
|           | 07/30/97 | 1194.66           | 48.96          | 1145.7                |
|           | 08/15/97 | 1194.66           | 66.03          | 1128.63               |
|           | 08/18/97 | 1194.66           | 48.68          | 1145.98               |
|           | 08/27/97 | 1194.66           | 48.75          | 1145.91               |
|           | 09/30/97 | 1194.66           | 49.01          | 1145.65               |
|           | 10/14/97 | 1194.66           | 49.35          | 1145.31               |
|           | 11/28/97 | 1194.66           | 48.73          | 1145.93               |
|           | 12/17/97 | 1194.66           | 48.9           | 1145.76               |
|           | 01/27/98 | 1194.66           | 48.98          | 1145.68               |
|           | 04/17/98 | 1194.66           | 49.19          | 1145.47               |
|           | 08/06/98 | 1194.66           | 48.28          | 1146.38               |
|           | 10/19/98 | 1194.66           | 47.75          | 1146.91               |
|           | 04/08/99 | 1194.66           | 51.79          | 1142.87               |
|           | 07/08/99 | 1194.66           | 51.02          | 1143.64               |
|           | 10/28/99 | 1194.66           | 52.04          | 1142.62               |
|           | 02/16/00 | 1194.66           | 53.24          | 1141.42               |
|           | 04/08/00 | 1194.66           | 53.75          | 1140.91               |
|           | 08/07/00 | 1194.66           | 54.14          | 1140.52               |
|           | 11/08/00 | 1194.66           | 53.87          | 1140.79               |
| DM606-370 | 01/11/95 | 1194.66           | 46.52          | 1148.14               |
|           | 02/09/95 | 1194.66           | 46.89          | 1147.77               |
|           | 02/28/95 | 1194.66           | 46.78          | 1147.88               |
|           | 03/15/95 | 1194.66           | 46.64          | 1148.02               |
|           | 04/04/95 | 1194.66           | 46.41          | 1148.25               |
|           | 05/03/95 | 1194.66           | 46.5           | 1148.16               |
|           | 06/20/95 | 1194.66           | 47.23          | 1147.43               |
|           | 07/20/95 | 1194.66           | 47.22          | 1147.44               |
|           | 08/04/95 | 1194.66           | 47.14          | 1147.52               |
|           | 09/28/95 | 1194.66           | 46.11          | 1148.55               |
|           | 10/23/95 | 1194.66           | 46.96          | 1147.7                |
|           | 11/27/95 | 1194.66           | 46.87          | 1147.79               |
|           | 12/26/95 | 1194.66           | 47.03          | 1147.63               |
|           | 01/24/96 | 1194.66           | 47.65          | 1147.01               |
|           | 02/08/96 | 1194.66           | 47.84          | 1146.82               |
|           | 04/03/96 | 1194.66           | 48.86          | 1145.8                |
|           | 04/18/96 | 1194.66           | 48.86          | 1145.8                |
|           | 05/30/96 | 1194.66           | 48.92          | 1145.74               |
|           | 06/12/96 | 1194.66           | 48.84          | 1145.82               |
|           | 07/09/96 | 1194.66           | 48.83          | 1145.83               |
|           | 07/24/96 | 1194.66           | 48.16          | 1146.5                |
|           | 08/15/96 | 1194.66           | 48.1           | 1146.56               |
|           | 09/11/96 | 1194.66           | 47.67          | 1146.99               |
|           | 11/29/96 | 1194.66           | 47.41          | 1147.25               |
|           | 12/31/96 | 1194.66           | 47.45          | 1147.21               |
|           | 01/17/97 | 1194.66           | 48.61          | 1146.05               |
|           | 02/03/97 | 1194.66           | 49.9           | 1144.76               |
|           | 02/19/97 | 1194.66           | 49.02          | 1145.64               |
|           | 03/25/97 | 1194.66           | 49.32          | 1145.34               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM606-370 | 04/10/97 | 1194.66           | 49.38          | 1145.28               |
|           | 05/23/97 | 1194.66           | 49.96          | 1144.7                |
|           | 06/18/97 | 1194.66           | 49.94          | 1144.72               |
|           | 07/30/97 | 1194.66           | 50             | 1144.66               |
|           | 08/15/97 | 1194.66           | 67.01          | 1127.65               |
|           | 08/18/97 | 1194.66           | 48.56          | 1146.1                |
|           | 08/27/97 | 1194.66           | 49.67          | 1144.99               |
|           | 09/30/97 | 1194.66           | 50.09          | 1144.57               |
|           | 10/14/97 | 1194.66           | 50.32          | 1144.34               |
|           | 11/28/97 | 1194.66           | 50.18          | 1144.48               |
|           | 12/17/97 | 1194.66           | 49.92          | 1144.74               |
|           | 01/27/98 | 1194.66           | 50.04          | 1144.62               |
|           | 04/17/98 | 1194.66           | 50.16          | 1144.5                |
|           | 08/06/98 | 1194.66           | 49.25          | 1145.41               |
|           | 10/19/98 | 1194.66           | 48.87          | 1145.79               |
|           | 04/08/99 | 1194.66           | 52.84          | 1141.82               |
|           | 07/08/99 | 1194.66           | 51.23          | 1143.43               |
|           | 10/28/99 | 1194.66           | 53.15          | 1141.51               |
|           | 02/16/00 | 1194.66           | 54.2           | 1140.46               |
|           | 04/08/00 | 1194.66           | 54.82          | 1139.84               |
|           | 08/07/00 | 1194.66           | 55.18          | 1139.48               |
|           | 11/08/00 | 1194.66           | 54.96          | 1139.7                |
| DM701     | 01/10/95 | 1177.07           | 35.1           | 1141.97               |
|           | 02/27/95 | 1177.07           | 35.33          | 1141.74               |
|           | 03/14/95 | 1177.07           | 35.58          | 1141.49               |
|           | 04/06/95 | 1177.07           | 34.02          | 1143.05               |
|           | 05/19/95 | 1177.07           | 35.72          | 1141.35               |
|           | 06/09/95 | 1177.07           | 34.05          | 1143.02               |
|           | 07/05/95 | 1177.07           | 34.09          | 1142.98               |
|           | 07/26/95 | 1177.07           | 35.62          | 1141.45               |
|           | 08/29/95 | 1177.07           | 34.07          | 1143                  |
|           | 09/13/95 | 1177.07           | 34.12          | 1142.95               |
|           | 10/17/95 | 1177.07           | 34.75          | 1142.32               |
|           | 11/16/95 | 1177.07           | 34.81          | 1142.26               |
|           | 12/18/95 | 1177.07           | 34.83          | 1142.24               |
|           | 01/20/96 | 1177.07           | 36.31          | 1140.76               |
|           | 02/27/96 | 1177.07           | 36.31          | 1140.76               |
|           | 03/19/96 | 1177.07           | 36.79          | 1140.28               |
|           | 04/18/96 | 1177.07           | 36.44          | 1140.63               |
|           | 04/23/96 | 1177.07           | 36.33          | 1140.74               |
|           | 05/30/96 | 1177.07           | 36.6           | 1140.47               |
|           | 06/18/96 | 1177.07           | 37.16          | 1139.91               |
|           | 07/01/96 | 1177.07           | 36.6           | 1140.47               |
|           | 08/14/96 | 1177.07           | 38.39          | 1138.68               |
|           | 09/27/96 | 1177.07           | 38.37          | 1138.7                |
|           | 10/07/96 | 1177.07           | 38.36          | 1138.71               |
|           | 10/24/96 | 1177.07           | 38.09          | 1138.98               |
|           | 11/05/96 | 1177.07           | 38.09          | 1138.98               |
|           | 12/31/96 | 1177.07           | 37.92          | 1139.15               |
|           | 01/10/97 | 1177.07           | 38.65          | 1138.42               |
|           | 02/18/97 | 1177.07           | 37.85          | 1139.22               |
|           | 03/20/97 | 1177.07           | 38.66          | 1138.41               |
|           | 04/03/97 | 1177.07           | 37.92          | 1139.15               |
|           | 04/17/97 | 1177.07           | 38.7           | 1138.37               |
|           | 06/30/97 | 1177.07           | 38.5           | 1138.57               |
|           | 07/29/97 | 1177.07           | 37.82          | 1139.25               |
|           | 08/29/97 | 1177.07           | 38.82          | 1138.25               |
|           | 10/01/97 | 1177.07           | 38.55          | 1138.52               |
|           | 10/16/97 | 1177.07           | 38.54          | 1138.53               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM701   | 11/03/97 | 1177.07           | 38.55          | 1138.52               |
|         | 12/30/97 | 1177.07           | 38.7           | 1138.37               |
|         | 01/28/98 | 1177.07           | 38.78          | 1138.29               |
|         | 04/13/98 | 1177.07           | 37.86          | 1139.21               |
|         | 08/06/98 | 1177.07           | 38.08          | 1138.99               |
|         | 10/12/98 | 1177.07           | 37.84          | 1139.23               |
|         | 12/18/98 | 1177.07           | 37.78          | 1139.29               |
|         | 04/08/99 | 1177.07           | 38.14          | 1138.93               |
|         | 07/16/99 | 1177.07           | 38.44          | 1138.63               |
|         | 12/15/99 | 1177.07           | 38.35          | 1138.72               |
|         | 02/07/00 | 1177.07           | 37.58          | 1139.49               |
|         | 07/15/00 | 1177.07           | 38.76          | 1138.31               |
|         | 10/07/00 | 1177.07           | 38.84          | 1138.23               |
|         | 11/20/00 | 1177.07           | 38.02          | 1139.05               |
| DM702   | 01/09/95 | 1195.38           | 30.78          | 1164.6                |
|         | 02/27/95 | 1195.38           | 60.71          | 1134.67               |
|         | 03/14/95 | 1195.38           | 58.68          | 1136.7                |
|         | 04/05/95 | 1195.38           | 58.5           | 1136.88               |
|         | 05/11/95 | 1195.38           | 55.33          | 1140.05               |
|         | 06/07/95 | 1195.38           | 55.82          | 1139.56               |
|         | 07/05/95 | 1195.38           | 63.26          | 1132.12               |
|         | 07/24/95 | 1195.38           | 63.2           | 1132.18               |
|         | 08/17/95 | 1195.38           | 62.88          | 1132.5                |
|         | 09/13/95 | 1195.38           | 63.2           | 1132.18               |
|         | 10/17/95 | 1195.38           | 60.05          | 1135.33               |
|         | 11/10/95 | 1195.38           | 61.52          | 1163.86               |
|         | 12/18/95 | 1195.38           | 53.06          | 1142.32               |
|         | 01/18/96 | 1195.38           | 58.71          | 1136.67               |
|         | 02/26/96 | 1195.38           | 33.84          | 1161.54               |
|         | 03/15/96 | 1195.38           | 62.25          | 1133.13               |
|         | 04/01/96 | 1195.38           | 34.04          | 1161.34               |
|         | 05/08/96 | 1195.38           | 57.55          | 1137.83               |
|         | 05/28/96 | 1195.38           | 59.8           | 1135.58               |
|         | 06/18/96 | 1195.38           | 53.46          | 1141.92               |
|         | 07/01/96 | 1195.38           | 64.75          | 1130.63               |
|         | 08/07/96 | 1195.38           | 62.36          | 1133.02               |
|         | 09/30/96 | 1195.38           | 63.55          | 1131.83               |
|         | 10/07/96 | 1195.38           | 62.81          | 1132.57               |
|         | 11/11/96 | 1195.38           | 64.47          | 1130.91               |
|         | 12/31/96 | 1195.38           | 65.13          | 1130.25               |
|         | 01/10/97 | 1195.38           | 60.61          | 1134.77               |
|         | 02/17/97 | 1195.38           | 55.22          | 1140.16               |
|         | 03/31/97 | 1195.38           | 62.05          | 1133.33               |
|         | 04/02/97 | 1195.38           | 62.13          | 1133.25               |
|         | 05/06/97 | 1195.38           | 63.82          | 1131.56               |
|         | 05/30/97 | 1195.38           | 58.15          | 1137.23               |
|         | 06/30/97 | 1195.38           | 60.2           | 1135.18               |
|         | 07/25/97 | 1195.38           | 52             | 1143.38               |
|         | 08/25/97 | 1195.38           | 58.16          | 1137.22               |
|         | 09/30/97 | 1195.38           | 54.2           | 1141.18               |
|         | 10/09/97 | 1195.38           | 58.11          | 1137.27               |
|         | 11/05/97 | 1195.38           | 63.7           | 1131.68               |
|         | 12/30/97 | 1195.38           | 55.36          | 1140.02               |
|         | 01/26/98 | 1195.38           | 57.75          | 1137.63               |
|         | 04/07/98 | 1195.38           | 64.95          | 1130.43               |
|         | 07/29/98 | 1195.38           | 63.28          | 1132.1                |
|         | 10/09/98 | 1195.38           | 35.13          | 1160.25               |
|         | 04/08/99 | 1195.38           | 53.66          | 1141.72               |
|         | 07/15/99 | 1195.38           | 61.68          | 1133.7                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM702   | 10/12/99 | 1195.38           | 53.09          | 1142.29               |
|         | 02/07/00 | 1195.38           | 53.33          | 1142.05               |
|         | 04/05/00 | 1195.38           | 60.74          | 1134.64               |
|         | 08/09/00 | 1195.38           | 60             | 1135.38               |
|         | 10/06/00 | 1195.38           | 59.24          | 1136.14               |
|         | 10/31/00 | 1195.38           | 62.28          | 1133.1                |
| DM703   | 01/09/95 | 1194.72           | 30.25          | 1164.47               |
|         | 02/23/95 | 1194.72           | 61             | 1133.72               |
|         | 03/14/95 | 1194.72           | 62.07          | 1132.65               |
|         | 04/06/95 | 1194.72           | 61.59          | 1133.13               |
|         | 05/11/95 | 1194.72           | 62.83          | 1131.89               |
|         | 06/07/95 | 1194.72           | 59.78          | 1134.94               |
|         | 07/05/95 | 1194.72           | 63.34          | 1131.38               |
|         | 07/24/95 | 1194.72           | 63.34          | 1131.38               |
|         | 08/17/95 | 1194.72           | 63.62          | 1131.1                |
|         | 09/13/95 | 1194.72           | 63.45          | 1131.27               |
|         | 10/17/95 | 1194.72           | 63.12          | 1131.6                |
|         | 11/10/95 | 1194.72           | 31.83          | 1162.89               |
|         | 12/18/95 | 1194.72           | 64.41          | 1130.31               |
|         | 01/18/96 | 1194.72           | 65.71          | 1129.01               |
|         | 02/26/96 | 1194.72           | 43             | 1151.72               |
|         | 03/15/96 | 1194.72           | 82.24          | 1112.48               |
|         | 04/01/96 | 1194.72           | 34.77          | 1159.95               |
|         | 05/08/96 | 1194.72           | 64.94          | 1129.78               |
|         | 05/28/96 | 1194.72           | 61.75          | 1132.97               |
|         | 06/18/96 | 1194.72           | 63.4           | 1131.32               |
|         | 07/01/96 | 1194.72           | 59.2           | 1135.52               |
|         | 08/07/96 | 1194.72           | 62.67          | 1132.05               |
|         | 09/30/96 | 1194.72           | 59.47          | 1135.25               |
|         | 10/07/96 | 1194.72           | 61.76          | 1132.96               |
|         | 11/11/96 | 1194.72           | 62.87          | 1131.85               |
|         | 12/31/96 | 1194.72           | 64.2           | 1130.52               |
|         | 01/10/97 | 1194.72           | 61.33          | 1133.39               |
|         | 02/17/97 | 1194.72           | 61.11          | 1133.61               |
|         | 03/31/97 | 1194.72           | 61.9           | 1132.82               |
|         | 04/02/97 | 1194.72           | 64.18          | 1130.54               |
|         | 05/05/97 | 1194.72           | 43.59          | 1151.13               |
|         | 05/30/97 | 1194.72           | 65.08          | 1129.64               |
|         | 06/30/97 | 1194.72           | 62.35          | 1132.37               |
|         | 07/25/97 | 1194.72           | 65.68          | 1129.04               |
|         | 08/25/97 | 1194.72           | 61.38          | 1133.34               |
|         | 09/30/97 | 1194.72           | 64.29          | 1130.43               |
|         | 10/09/97 | 1194.72           | 61.33          | 1133.39               |
|         | 11/04/97 | 1194.72           | 60.8           | 1133.92               |
|         | 12/30/97 | 1194.72           | 60.65          | 1134.07               |
|         | 01/26/98 | 1194.72           | 65.79          | 1128.93               |
|         | 04/07/98 | 1194.72           | 63.25          | 1131.47               |
|         | 07/29/98 | 1194.72           | 63.79          | 1130.93               |
|         | 10/09/98 | 1194.72           | 55             | 1139.72               |
|         | 04/08/99 | 1194.72           | 63.68          | 1131.04               |
|         | 07/15/99 | 1194.72           | 63.05          | 1131.67               |
|         | 10/12/99 | 1194.72           | 62.95          | 1131.77               |
|         | 02/07/00 | 1194.72           | 60.42          | 1134.3                |
|         | 04/05/00 | 1194.72           | 65.47          | 1129.25               |
|         | 08/09/00 | 1194.72           | 61.59          | 1133.13               |
|         | 10/06/00 | 1194.72           | 63.5           | 1131.22               |
|         | 10/31/00 | 1194.72           | 59.72          | 1135                  |
| DM704   | 01/09/95 | 1194.54           | 28.92          | 1165.62               |
|         | 02/27/95 | 1194.54           | 34.2           | 1160.34               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM704   | 03/14/95 | 1194.54           | 36.02          | 1158.52               |
|         | 04/06/95 | 1194.54           | 35.32          | 1159.22               |
|         | 05/11/95 | 1194.54           | 34.94          | 1159.6                |
|         | 06/12/95 | 1194.54           | 57.36          | 1137.18               |
|         | 07/05/95 | 1194.54           | 37.65          | 1156.89               |
|         | 07/24/95 | 1194.54           | 43.16          | 1151.38               |
|         | 08/17/95 | 1194.54           | 39.48          | 1155.06               |
|         | 09/13/95 | 1194.54           | 42.53          | 1152.01               |
|         | 10/17/95 | 1194.54           | 32.53          | 1162.01               |
|         | 11/10/95 | 1194.54           | 30.2           | 1164.34               |
|         | 12/18/95 | 1194.54           | 64.97          | 1129.57               |
|         | 01/18/96 | 1194.54           | 64.47          | 1130.07               |
|         | 02/26/96 | 1194.54           | 33.08          | 1161.46               |
|         | 03/15/96 | 1194.54           | 67             | 1127.54               |
|         | 04/02/96 | 1194.54           | 34.63          | 1159.91               |
|         | 05/03/96 | 1194.54           | 62.89          | 1131.65               |
|         | 05/28/96 | 1194.54           | 66.8           | 1127.74               |
|         | 06/18/96 | 1194.54           | 62.88          | 1131.66               |
|         | 07/01/96 | 1194.54           | 66.65          | 1127.89               |
|         | 08/07/96 | 1194.54           | 58.42          | 1136.12               |
|         | 09/30/96 | 1194.54           | 59.6           | 1134.94               |
|         | 10/07/96 | 1194.54           | 57.6           | 1136.94               |
|         | 11/06/96 | 1194.54           | 59.85          | 1134.69               |
|         | 12/31/96 | 1194.54           | 65.95          | 1128.59               |
|         | 01/10/97 | 1194.54           | 61.75          | 1132.79               |
|         | 02/17/97 | 1194.54           | 65.41          | 1129.13               |
|         | 03/31/97 | 1194.54           | 66.45          | 1128.09               |
|         | 04/02/97 | 1194.54           | 60.64          | 1133.9                |
|         | 05/01/97 | 1194.54           | 38.8           | 1155.74               |
|         | 05/30/97 | 1194.54           | 63.4           | 1131.14               |
|         | 06/30/97 | 1194.54           | 61.85          | 1132.69               |
|         | 07/28/97 | 1194.54           | 59.68          | 1134.86               |
|         | 08/25/97 | 1194.54           | 59.45          | 1135.09               |
|         | 09/30/97 | 1194.54           | 65.3           | 1129.24               |
|         | 10/09/97 | 1194.54           | 66.37          | 1128.17               |
|         | 10/30/97 | 1194.54           | 59.78          | 1134.76               |
|         | 12/01/97 | 1194.54           | 61.3           | 1133.24               |
|         | 12/30/97 | 1194.54           | 62.1           | 1132.44               |
|         | 01/26/98 | 1194.54           | 63.35          | 1131.19               |
|         | 04/07/98 | 1194.54           | 86.96          | 1107.58               |
|         | 07/29/98 | 1194.54           | 61.94          | 1132.6                |
|         | 10/09/98 | 1194.54           | 47.66          | 1146.88               |
|         | 04/08/99 | 1194.54           | 66.87          | 1127.67               |
|         | 07/15/99 | 1194.54           | 65.06          | 1129.48               |
|         | 10/12/99 | 1194.54           | 62.23          | 1132.31               |
|         | 02/07/00 | 1194.54           | 64.38          | 1130.16               |
|         | 04/05/00 | 1194.54           | 61.09          | 1133.45               |
|         | 08/09/00 | 1194.54           | 65.29          | 1129.25               |
|         | 10/06/00 | 1194.54           | 61.51          | 1133.03               |
|         | 10/31/00 | 1194.54           | 61             | 1133.54               |
| DM705   | 01/09/95 | 1193.8            | 30.68          | 1163.12               |
|         | 02/27/95 | 1193.8            | 63.56          | 1130.24               |
|         | 03/14/95 | 1193.8            | 63.88          | 1129.92               |
|         | 04/06/95 | 1193.8            | 61.5           | 1132.3                |
|         | 05/11/95 | 1193.8            | 62.13          | 1131.67               |
|         | 06/12/95 | 1193.8            | 35.21          | 1158.59               |
|         | 07/05/95 | 1193.8            | 62.39          | 1131.41               |
|         | 07/24/95 | 1193.8            | 62.35          | 1131.45               |
|         | 08/17/95 | 1193.8            | 62             | 1131.8                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM705   | 09/13/95 | 1193.8            | 62.31          | 1131.49               |
|         | 10/17/95 | 1193.8            | 63.78          | 1130.02               |
|         | 11/10/95 | 1193.8            | 28.91          | 1164.89               |
|         | 12/18/95 | 1193.8            | 62.93          | 1130.87               |
|         | 01/18/96 | 1193.8            | 63.86          | 1129.94               |
|         | 02/26/96 | 1193.8            | 54.06          | 1139.74               |
|         | 03/15/96 | 1193.8            | 68.21          | 1125.59               |
|         | 04/02/96 | 1193.8            | 32.25          | 1161.55               |
|         | 05/02/96 | 1193.8            | 60.98          | 1132.82               |
|         | 05/28/96 | 1193.8            | 60.5           | 1133.3                |
|         | 06/18/96 | 1193.8            | 66.09          | 1127.71               |
|         | 07/01/96 | 1193.8            | 65.75          | 1128.05               |
|         | 08/07/96 | 1193.8            | 60.7           | 1133.1                |
|         | 09/30/96 | 1193.8            | 60.3           | 1133.5                |
|         | 10/07/96 | 1193.8            | 61.03          | 1132.77               |
|         | 11/06/96 | 1193.8            | 65.1           | 1128.7                |
|         | 12/31/96 | 1193.8            | 60.75          | 1133.05               |
|         | 01/10/97 | 1193.8            | 65.13          | 1128.67               |
|         | 02/17/97 | 1193.8            | 56.02          | 1137.78               |
|         | 03/31/97 | 1193.8            | 66.85          | 1126.95               |
|         | 04/02/97 | 1193.8            | 65.08          | 1128.72               |
|         | 04/28/97 | 1193.8            | 57.48          | 1136.32               |
|         | 05/30/97 | 1193.8            | 59.23          | 1134.57               |
|         | 06/30/97 | 1193.8            | 64.47          | 1129.33               |
|         | 07/28/97 | 1193.8            | 63.56          | 1130.24               |
|         | 08/25/97 | 1193.8            | 64.25          | 1129.55               |
|         | 09/30/97 | 1193.8            | 62.21          | 1131.59               |
|         | 10/09/97 | 1193.8            | 53.95          | 1139.85               |
|         | 10/30/97 | 1193.8            | 57.92          | 1135.88               |
|         | 12/01/97 | 1193.8            | 52.6           | 1141.2                |
|         | 12/30/97 | 1193.8            | 23.51          | 1170.29               |
|         | 01/26/98 | 1193.8            | 63.78          | 1130.02               |
|         | 04/07/98 | 1193.8            | 27.8           | 1166                  |
|         | 07/29/98 | 1193.8            | 59.67          | 1134.13               |
|         | 10/09/98 | 1193.8            | 56.39          | 1137.41               |
|         | 04/08/99 | 1193.8            | 56.52          | 1137.28               |
|         | 07/15/99 | 1193.8            | 63.1           | 1130.7                |
|         | 10/12/99 | 1193.8            | 61.36          | 1132.44               |
|         | 02/07/00 | 1193.8            | 55.77          | 1138.03               |
|         | 04/05/00 | 1193.8            | 61.78          | 1132.02               |
|         | 08/09/00 | 1193.8            | 54.58          | 1139.22               |
|         | 10/06/00 | 1193.8            | 57.46          | 1136.34               |
|         | 10/31/00 | 1193.8            | 58.14          | 1135.66               |
| DM706   | 01/09/95 | 1193.62           | 32.6           | 1161.02               |
|         | 02/27/95 | 1193.62           | 62.64          | 1130.98               |
|         | 03/14/95 | 1193.62           | 64.3           | 1129.32               |
|         | 04/06/95 | 1193.62           | 62             | 1131.62               |
|         | 05/11/95 | 1193.62           | 61.55          | 1132.07               |
|         | 06/12/95 | 1193.62           | 60.18          | 1133.44               |
|         | 07/05/95 | 1193.62           | 62.99          | 1130.63               |
|         | 07/24/95 | 1193.62           | 62.54          | 1131.08               |
|         | 08/17/95 | 1193.62           | 62.72          | 1130.9                |
|         | 09/13/95 | 1193.62           | 62.5           | 1131.12               |
|         | 10/17/95 | 1193.62           | 62.21          | 1131.41               |
|         | 11/10/95 | 1193.62           | 28.11          | 1165.51               |
|         | 12/18/95 | 1193.62           | 60.38          | 1133.24               |
|         | 01/18/96 | 1193.62           | 61.5           | 1132.12               |
|         | 02/26/96 | 1193.62           | 30.95          | 1162.67               |
|         | 03/15/96 | 1193.62           | 66             | 1127.62               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM706   | 04/02/96 | 1193.62           | 32.92          | 1160.7                |
|         | 05/02/96 | 1193.62           | 65.17          | 1128.45               |
|         | 05/28/96 | 1193.62           | 58.5           | 1135.12               |
|         | 06/18/96 | 1193.62           | 63.4           | 1130.22               |
|         | 07/01/96 | 1193.62           | 67.85          | 1125.77               |
|         | 08/07/96 | 1193.62           | 78.6           | 1115.02               |
|         | 09/30/96 | 1193.62           | 62             | 1131.62               |
|         | 10/07/96 | 1193.62           | 59.17          | 1134.45               |
|         | 10/30/96 | 1193.62           | 60.82          | 1132.8                |
|         | 11/21/96 | 1193.62           | 64.34          | 1129.28               |
|         | 12/31/96 | 1193.62           | 66.38          | 1127.24               |
|         | 01/10/97 | 1193.62           | 65.98          | 1127.64               |
|         | 02/17/97 | 1193.62           | 58.55          | 1135.07               |
|         | 03/31/97 | 1193.62           | 58.85          | 1134.77               |
|         | 04/02/97 | 1193.62           | 59.43          | 1134.19               |
|         | 04/24/97 | 1193.62           | 59.58          | 1134.04               |
|         | 05/30/97 | 1193.62           | 62.7           | 1130.92               |
|         | 06/30/97 | 1193.62           | 65.41          | 1128.21               |
|         | 07/28/97 | 1193.62           | 65.1           | 1128.52               |
|         | 08/25/97 | 1193.62           | 63.14          | 1130.48               |
|         | 09/30/97 | 1193.62           | 61.69          | 1131.93               |
|         | 10/09/97 | 1193.62           | 66.41          | 1127.21               |
|         | 10/29/97 | 1193.62           | 64.08          | 1129.54               |
|         | 12/01/97 | 1193.62           | 59.45          | 1134.17               |
|         | 12/30/97 | 1193.62           | 64.2           | 1129.42               |
|         | 01/26/98 | 1193.62           | 63.44          | 1130.18               |
|         | 04/07/98 | 1193.62           | 60.17          | 1133.45               |
|         | 07/29/98 | 1193.62           | 62.22          | 1131.4                |
|         | 10/09/98 | 1193.62           | 51             | 1142.62               |
|         | 04/08/99 | 1193.62           | 64.43          | 1129.19               |
|         | 07/15/99 | 1193.62           | 65.23          | 1128.39               |
|         | 10/12/99 | 1193.62           | 63.08          | 1130.54               |
|         | 02/07/00 | 1193.62           | 61.1           | 1132.52               |
|         | 04/05/00 | 1193.62           | 65.89          | 1127.73               |
|         | 08/09/00 | 1193.62           | 64.89          | 1128.73               |
|         | 10/06/00 | 1193.62           | 62.98          | 1130.64               |
|         | 10/31/00 | 1193.62           | 59.17          | 1134.45               |
| DM707   | 01/09/95 | 1195.58           | 29.2           | 1166.38               |
|         | 02/23/95 | 1195.58           | 57.93          | 1137.65               |
|         | 03/14/95 | 1195.58           | 64.05          | 1131.53               |
|         | 04/06/95 | 1195.58           | 56.15          | 1139.43               |
|         | 05/11/95 | 1195.58           | 62.66          | 1132.92               |
|         | 06/07/95 | 1195.58           | 60.55          | 1135.03               |
|         | 07/05/95 | 1195.58           | 58.6           | 1136.98               |
|         | 07/24/95 | 1195.58           | 59.03          | 1136.55               |
|         | 08/17/95 | 1195.58           | 59.11          | 1136.47               |
|         | 09/13/95 | 1195.58           | 59             | 1136.58               |
|         | 10/17/95 | 1195.58           | 63.93          | 1131.65               |
|         | 11/10/95 | 1195.58           | 30.69          | 1164.89               |
|         | 12/18/95 | 1195.58           | 58.31          | 1137.27               |
|         | 01/18/96 | 1195.58           | 63.34          | 1132.24               |
|         | 02/26/96 | 1195.58           | 32.71          | 1162.87               |
|         | 03/15/96 | 1195.58           | 66.26          | 1129.32               |
|         | 04/01/96 | 1195.58           | 33.18          | 1162.4                |
|         | 05/08/96 | 1195.58           | 61.52          | 1134.06               |
|         | 05/28/96 | 1195.58           | 55.39          | 1140.19               |
|         | 06/18/96 | 1195.58           | 62.48          | 1133.1                |
|         | 07/01/96 | 1195.58           | 60.05          | 1135.53               |
|         | 08/07/96 | 1195.58           | 57.95          | 1137.63               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM707   | 09/30/96 | 1195.58           | 60.31          | 1135.27               |
|         | 10/07/96 | 1195.58           | 60.92          | 1134.66               |
|         | 11/12/96 | 1195.58           | 54.4           | 1141.18               |
|         | 11/21/96 | 1195.58           | 54.4           | 1141.18               |
|         | 12/31/96 | 1195.58           | 61.75          | 1133.83               |
|         | 01/10/97 | 1195.58           | 64.82          | 1130.76               |
|         | 02/17/97 | 1195.58           | 58.11          | 1137.47               |
|         | 03/31/97 | 1195.58           | 61.9           | 1133.68               |
|         | 04/02/97 | 1195.58           | 42.37          | 1153.21               |
|         | 05/07/97 | 1195.58           | 63.08          | 1132.5                |
|         | 05/30/97 | 1195.58           | 56.92          | 1138.66               |
|         | 06/30/97 | 1195.58           | 65.05          | 1130.53               |
|         | 07/28/97 | 1195.58           | 59.98          | 1135.6                |
|         | 08/25/97 | 1195.58           | 63.08          | 1132.5                |
|         | 09/30/97 | 1195.58           | 59.51          | 1136.07               |
|         | 10/09/97 | 1195.58           | 55.2           | 1140.38               |
|         | 11/06/97 | 1195.58           | 63.05          | 1132.53               |
|         | 12/30/97 | 1195.58           | 61.6           | 1133.98               |
|         | 01/26/98 | 1195.58           | 64.75          | 1130.83               |
|         | 04/07/98 | 1195.58           | 64.97          | 1130.61               |
|         | 07/29/98 | 1195.58           | 56.44          | 1139.14               |
|         | 10/09/98 | 1195.58           | 36.6           | 1158.98               |
|         | 04/08/99 | 1195.58           | 55.31          | 1140.27               |
|         | 07/15/99 | 1195.58           | 64.34          | 1131.24               |
|         | 10/12/99 | 1195.58           | 61.38          | 1134.2                |
|         | 02/07/00 | 1195.58           | 42.18          | 1153.4                |
|         | 04/05/00 | 1195.58           | 42.23          | 1153.35               |
|         | 08/09/00 | 1195.58           | 61.95          | 1133.63               |
|         | 10/06/00 | 1195.58           | 57.52          | 1138.06               |
|         | 10/31/00 | 1195.58           | 56.01          | 1139.57               |
| DM713   | 01/09/95 | 1199.59           | 28.82          | 1170.77               |
|         | 02/23/95 | 1199.59           | 30.43          | 1169.16               |
|         | 03/14/95 | 1199.59           | 30.88          | 1168.71               |
|         | 04/06/95 | 1199.59           | 37.26          | 1162.33               |
|         | 05/11/95 | 1199.59           | 30.78          | 1168.81               |
|         | 06/07/95 | 1199.59           | 39.57          | 1160.02               |
|         | 07/05/95 | 1199.59           | 41.4           | 1158.19               |
|         | 07/24/95 | 1199.59           | 41.5           | 1158.09               |
|         | 08/17/95 | 1199.59           | 41.28          | 1158.31               |
|         | 09/13/95 | 1199.59           | 41.42          | 1158.17               |
|         | 10/17/95 | 1199.59           | 39.66          | 1159.93               |
|         | 11/10/95 | 1199.59           | 29.82          | 1169.77               |
|         | 12/18/95 | 1199.59           | 41.9           | 1157.69               |
|         | 01/18/96 | 1199.59           | 36.58          | 1163.01               |
|         | 02/26/96 | 1199.59           | 39.16          | 1160.43               |
|         | 03/15/96 | 1199.59           | 43.39          | 1156.2                |
|         | 04/01/96 | 1199.59           | 39.76          | 1159.83               |
|         | 05/09/96 | 1199.59           | 35.8           | 1163.79               |
|         | 05/25/96 | 1199.59           | 44.05          | 1155.54               |
|         | 06/20/96 | 1199.59           | 45.45          | 1154.14               |
|         | 07/01/96 | 1199.59           | 41.8           | 1157.79               |
|         | 08/07/96 | 1199.59           | 39.9           | 1159.69               |
|         | 09/30/96 | 1199.59           | 44.15          | 1155.44               |
|         | 10/03/96 | 1199.59           | 39.08          | 1160.51               |
|         | 11/12/96 | 1199.59           | 41.55          | 1158.04               |
|         | 11/21/96 | 1199.59           | 41.55          | 1158.04               |
|         | 12/31/96 | 1199.59           | 46.52          | 1153.07               |
|         | 01/15/97 | 1199.59           | 38.55          | 1161.04               |
|         | 02/18/97 | 1199.59           | 43.95          | 1155.64               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM713   | 03/20/97 | 1199.59           | 41.45          | 1158.14               |
|         | 04/03/97 | 1199.59           | 38.87          | 1160.72               |
|         | 05/07/97 | 1199.59           | 40.26          | 1159.33               |
|         | 05/30/97 | 1199.59           | 26             | 1173.59               |
|         | 06/30/97 | 1199.59           | 42.77          | 1156.82               |
|         | 07/25/97 | 1199.59           | 40.28          | 1159.31               |
|         | 08/26/97 | 1199.59           | 41.31          | 1158.28               |
|         | 09/30/97 | 1199.59           | 45.36          | 1154.23               |
|         | 10/15/97 | 1199.59           | 44.95          | 1154.64               |
|         | 11/06/97 | 1199.59           | 40.51          | 1159.08               |
|         | 11/07/97 | 1199.59           | 40.65          | 1158.94               |
|         | 12/30/97 | 1199.59           | 43.4           | 1156.19               |
|         | 01/27/98 | 1199.59           | 40.17          | 1159.42               |
|         | 04/13/98 | 1199.59           | 41.11          | 1158.48               |
|         | 07/28/98 | 1199.59           | 39.84          | 1159.75               |
|         | 10/12/98 | 1199.59           | 38.71          | 1160.88               |
|         | 04/09/99 | 1199.59           | 42.38          | 1157.21               |
|         | 07/16/99 | 1199.59           | 39.5           | 1160.09               |
|         | 10/13/99 | 1199.59           | 39.06          | 1160.53               |
|         | 02/08/00 | 1199.59           | 39.6           | 1159.99               |
|         | 04/07/00 | 1199.59           | 44.24          | 1155.35               |
|         | 08/15/00 | 1199.59           | 48.72          | 1150.87               |
|         | 10/06/00 | 1199.59           | 46.98          | 1152.61               |
| DM714   | 01/09/95 | 1202.76           | 31.38          | 1171.38               |
|         | 02/23/95 | 1202.76           | 32.96          | 1169.8                |
|         | 03/14/95 | 1202.76           | 32.58          | 1170.18               |
|         | 04/06/95 | 1202.76           | 41.25          | 1161.51               |
|         | 05/11/95 | 1202.76           | 39.4           | 1163.36               |
|         | 06/07/95 | 1202.76           | 37.72          | 1165.04               |
|         | 07/05/95 | 1202.76           | 36.65          | 1166.11               |
|         | 07/24/95 | 1202.76           | 36.34          | 1166.42               |
|         | 08/17/95 | 1202.76           | 38.06          | 1164.7                |
|         | 09/13/95 | 1202.76           | 36.38          | 1166.38               |
|         | 10/17/95 | 1202.76           | 36.95          | 1165.81               |
|         | 11/10/95 | 1202.76           | 32.63          | 1170.13               |
|         | 12/18/95 | 1202.76           | 36.81          | 1165.95               |
|         | 01/18/96 | 1202.76           | 38             | 1164.76               |
|         | 02/26/96 | 1202.76           | 36.17          | 1166.59               |
|         | 03/15/96 | 1202.76           | 39.05          | 1163.71               |
|         | 04/01/96 | 1202.76           | 36.7           | 1166.06               |
|         | 05/09/96 | 1202.76           | 41.86          | 1160.9                |
|         | 05/29/96 | 1202.76           | 38.84          | 1163.92               |
|         | 06/20/96 | 1202.76           | 39.67          | 1163.09               |
|         | 07/01/96 | 1202.76           | 39.95          | 1162.81               |
|         | 08/07/96 | 1202.76           | 39.2           | 1163.56               |
|         | 09/30/96 | 1202.76           | 36.88          | 1165.88               |
|         | 10/03/96 | 1202.76           | 36.9           | 1165.86               |
|         | 11/12/96 | 1202.76           | 37.42          | 1165.34               |
|         | 11/21/96 | 1202.76           | 37.42          | 1165.34               |
|         | 12/31/96 | 1202.76           | 38.35          | 1164.41               |
|         | 01/15/97 | 1202.76           | 37.35          | 1165.41               |
|         | 02/18/97 | 1202.76           | 37.15          | 1165.61               |
|         | 03/20/97 | 1202.76           | 36.96          | 1165.8                |
|         | 04/03/97 | 1202.76           | 36.75          | 1166.01               |
|         | 05/06/97 | 1202.76           | 37.51          | 1165.25               |
|         | 05/30/97 | 1202.76           | 32.4           | 1170.36               |
|         | 06/30/97 | 1202.76           | 35.74          | 1167.02               |
|         | 07/25/97 | 1202.76           | 37.63          | 1165.13               |
|         | 08/26/97 | 1202.76           | 39.26          | 1163.5                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM714   | 09/30/97 | 1202.76           | 39.25          | 1163.51               |
|         | 10/15/97 | 1202.76           | 36.8           | 1165.96               |
|         | 11/05/97 | 1202.76           | 37.39          | 1165.37               |
|         | 12/30/97 | 1202.76           | 39.2           | 1163.56               |
|         | 01/27/98 | 1202.76           | 36.74          | 1166.02               |
|         | 04/13/98 | 1202.76           | 37.45          | 1165.31               |
|         | 07/28/98 | 1202.76           | 36.81          | 1165.95               |
|         | 10/12/98 | 1202.76           | 33.55          | 1169.21               |
|         | 04/09/99 | 1202.76           | 41.26          | 1161.5                |
|         | 07/16/99 | 1202.76           | 38.58          | 1164.18               |
|         | 10/13/99 | 1202.76           | 37.77          | 1164.99               |
|         | 02/08/00 | 1202.76           | 39.69          | 1163.07               |
|         | 04/07/00 | 1202.76           | 42.16          | 1160.6                |
|         | 08/15/00 | 1202.76           | 39.14          | 1163.62               |
|         | 10/06/00 | 1202.76           | 37.98          | 1164.78               |
|         | 11/01/00 | 1202.76           | 37.91          | 1164.85               |
| DM715   | 01/10/95 | 1202.41           | 31.7           | 1170.71               |
|         | 02/03/95 | 1202.41           | 31.8           | 1170.61               |
|         | 03/14/95 | 1202.41           | 31.72          | 1170.69               |
|         | 04/06/95 | 1202.41           | 30.28          | 1172.13               |
|         | 05/18/95 | 1202.41           | 30.4           | 1172.01               |
|         | 06/07/95 | 1202.41           | 33.16          | 1169.25               |
|         | 07/05/95 | 1202.41           | 31.21          | 1171.2                |
|         | 08/17/95 | 1202.41           | 31.2           | 1171.21               |
|         | 09/13/95 | 1202.41           | 31.23          | 1171.18               |
|         | 10/17/95 | 1202.41           | 31.18          | 1171.23               |
|         | 11/15/95 | 1202.41           | 30.64          | 1171.77               |
|         | 12/18/95 | 1202.41           | 33.17          | 1169.24               |
|         | 01/18/96 | 1202.41           | 32             | 1170.41               |
|         | 02/26/96 | 1202.41           | 33             | 1169.41               |
|         | 03/15/96 | 1202.41           | 33.88          | 1168.53               |
|         | 04/01/96 | 1202.41           | 33.47          | 1168.94               |
|         | 05/07/96 | 1202.41           | 34.45          | 1167.96               |
|         | 05/30/96 | 1202.41           | 32.75          | 1169.66               |
|         | 06/20/96 | 1202.41           | 36.18          | 1166.23               |
|         | 07/01/96 | 1202.41           | 36.38          | 1166.03               |
|         | 08/09/96 | 1202.41           | 36.18          | 1166.23               |
|         | 09/30/96 | 1202.41           | 33.72          | 1168.69               |
|         | 10/03/96 | 1202.41           | 33.68          | 1168.73               |
|         | 11/07/96 | 1202.41           | 34.75          | 1167.66               |
|         | 12/31/96 | 1202.41           | 34.39          | 1168.02               |
|         | 01/10/97 | 1202.41           | 33.7           | 1168.71               |
|         | 02/18/97 | 1202.41           | 34.19          | 1168.22               |
|         | 03/20/97 | 1202.41           | 33.8           | 1168.61               |
|         | 04/03/97 | 1202.41           | 37.38          | 1165.03               |
|         | 05/01/97 | 1202.41           | 32.36          | 1170.05               |
|         | 06/30/97 | 1202.41           | 32.47          | 1169.94               |
|         | 07/25/97 | 1202.41           | 33.22          | 1169.19               |
|         | 08/26/97 | 1202.41           | 33.49          | 1168.92               |
|         | 09/30/97 | 1202.41           | 32.35          | 1170.06               |
|         | 10/15/97 | 1202.41           | 32.1           | 1170.31               |
|         | 10/28/97 | 1202.41           | 32.66          | 1169.75               |
|         | 11/26/97 | 1202.41           | 33.15          | 1169.26               |
|         | 12/30/97 | 1202.41           | 31.95          | 1170.46               |
|         | 01/27/98 | 1202.41           | 32.99          | 1169.42               |
|         | 04/13/98 | 1202.41           | 30.64          | 1171.77               |
|         | 07/28/98 | 1202.41           | 30.23          | 1172.18               |
|         | 10/12/98 | 1202.41           | 29.95          | 1172.46               |
|         | 04/09/99 | 1202.41           | 33.89          | 1168.52               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM715   | 07/16/99 | 1202.41           | 36.34          | 1166.07               |
|         | 10/13/99 | 1202.41           | 35.47          | 1166.94               |
|         | 02/08/00 | 1202.41           | 37.64          | 1164.77               |
|         | 04/07/00 | 1202.41           | 33.98          | 1168.43               |
|         | 08/15/00 | 1202.41           | 37.27          | 1165.14               |
|         | 10/06/00 | 1202.41           | 36.04          | 1166.37               |
| DM716   | 01/10/95 | 1204.74           | 32.7           | 1172.04               |
|         | 02/02/95 | 1204.74           | 32.51          | 1172.23               |
|         | 03/14/95 | 1204.74           | 32.53          | 1172.21               |
|         | 04/06/95 | 1204.74           | 31.61          | 1173.13               |
|         | 05/23/95 | 1204.74           | 31.74          | 1173                  |
|         | 06/07/95 | 1204.74           | 34.41          | 1170.33               |
|         | 07/07/95 | 1204.74           | 32.17          | 1172.57               |
|         | 08/17/95 | 1204.74           | 32.23          | 1172.51               |
|         | 09/13/95 | 1204.74           | 32.18          | 1172.56               |
|         | 10/17/95 | 1204.74           | 33.23          | 1171.51               |
|         | 11/15/95 | 1204.74           | 32.3           | 1172.44               |
|         | 12/18/95 | 1204.74           | 33.86          | 1170.88               |
|         | 01/18/96 | 1204.74           | 33.45          | 1171.29               |
|         | 02/26/96 | 1204.74           | 34.84          | 1169.9                |
|         | 03/15/96 | 1204.74           | 35.3           | 1169.44               |
|         | 04/01/96 | 1204.74           | 35.5           | 1169.24               |
|         | 05/07/96 | 1204.74           | 35.98          | 1168.76               |
|         | 05/30/96 | 1204.74           | 35.98          | 1168.76               |
|         | 06/20/96 | 1204.74           | 37.76          | 1166.98               |
|         | 07/01/96 | 1204.74           | 38.13          | 1166.61               |
|         | 08/08/96 | 1204.74           | 38.2           | 1166.54               |
|         | 09/30/96 | 1204.74           | 36.55          | 1168.19               |
|         | 10/07/96 | 1204.74           | 36.55          | 1168.19               |
|         | 11/20/96 | 1204.74           | 36.5           | 1168.24               |
|         | 12/31/96 | 1204.74           | 36.44          | 1168.3                |
|         | 01/10/97 | 1204.74           | 36.56          | 1168.18               |
|         | 02/18/97 | 1204.74           | 36.41          | 1168.33               |
|         | 03/20/97 | 1204.74           | 36.3           | 1168.44               |
|         | 04/03/97 | 1204.74           | 37.25          | 1167.49               |
|         | 05/05/97 | 1204.74           | 35.6           | 1169.14               |
|         | 05/06/97 | 1204.74           | 35.77          | 1168.97               |
|         | 06/30/97 | 1204.74           | 35.04          | 1169.7                |
|         | 07/25/97 | 1204.74           | 35.73          | 1169.01               |
|         | 08/26/97 | 1204.74           | 35.92          | 1168.82               |
|         | 09/30/97 | 1204.74           | 35.29          | 1169.45               |
|         | 10/15/97 | 1204.74           | 35.73          | 1169.01               |
|         | 11/05/97 | 1204.74           | 37.83          | 1166.91               |
|         | 12/30/97 | 1204.74           | 36.81          | 1167.93               |
|         | 01/27/98 | 1204.74           | 37.88          | 1166.86               |
|         | 04/13/98 | 1204.74           | 35.48          | 1169.26               |
|         | 07/28/98 | 1204.74           | 32.72          | 1172.02               |
|         | 10/12/98 | 1204.74           | 33.87          | 1170.87               |
|         | 04/09/99 | 1204.74           | 36.88          | 1167.86               |
|         | 07/16/99 | 1204.74           | 39.16          | 1165.58               |
|         | 10/13/99 | 1204.74           | 39.51          | 1165.23               |
|         | 04/07/00 | 1204.74           | 37.02          | 1167.72               |
|         | 08/16/00 | 1204.74           | 40.68          | 1164.06               |
|         | 10/06/00 | 1204.74           | 40.58          | 1164.16               |
| DM717   | 01/10/95 | 1203.57           | 31.54          | 1172.03               |
|         | 02/02/95 | 1203.57           | 31.45          | 1172.12               |
|         | 03/14/95 | 1203.57           | 31.45          | 1172.12               |
|         | 04/06/95 | 1203.57           | 30.54          | 1173.03               |
|         | 05/23/95 | 1203.57           | 30.69          | 1172.88               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM717   | 06/07/95 | 1203.57           | 33.38          | 1170.19               |
|         | 07/07/95 | 1203.57           | 31.11          | 1172.46               |
|         | 08/17/95 | 1203.57           | 31.14          | 1172.43               |
|         | 09/13/95 | 1203.57           | 31.14          | 1172.43               |
|         | 10/17/95 | 1203.57           | 32.16          | 1171.41               |
|         | 11/15/95 | 1203.57           | 31.31          | 1172.26               |
|         | 12/18/95 | 1203.57           | 32.79          | 1170.78               |
|         | 01/18/96 | 1203.57           | 32.33          | 1171.24               |
|         | 02/26/96 | 1203.57           | 33.65          | 1169.92               |
|         | 03/15/96 | 1203.57           | 34.17          | 1169.4                |
|         | 04/01/96 | 1203.57           | 34.34          | 1169.23               |
|         | 09/30/96 | 1203.57           | -999           | Dry                   |
|         | 10/07/96 | 1203.57           | -999           | Dry                   |
|         | 11/20/96 | 1203.57           | -999           | Dry                   |
|         | 12/31/96 | 1203.57           | -999           | Dry                   |
|         | 01/10/97 | 1203.57           | -999           | Dry                   |
|         | 02/18/97 | 1203.57           | -999           | Dry                   |
|         | 03/20/97 | 1203.57           | -999           | Dry                   |
|         | 04/03/97 | 1203.57           | -999           | Dry                   |
|         | 06/30/97 | 1203.57           | -999           | Dry                   |
|         | 07/25/97 | 1203.57           | -999           | Dry                   |
|         | 08/26/97 | 1203.57           | 34.73          | 1168.84               |
|         | 09/30/97 | 1203.57           | 33.95          | 1169.62               |
|         | 10/15/97 | 1203.57           | 34.4           | 1169.17               |
|         | 11/05/97 | 1203.57           | 34.7           | 1168.87               |
|         | 12/30/97 | 1203.57           | -999           | Dry                   |
| DM718   | 01/10/95 | 1203.29           | 31.42          | 1171.87               |
|         | 02/23/95 | 1203.29           | 30.76          | 1172.53               |
|         | 03/15/95 | 1203.29           | 33.63          | 1169.66               |
|         | 04/06/95 | 1203.29           | 30.9           | 1172.39               |
|         | 05/11/95 | 1203.29           | 30.47          | 1172.82               |
|         | 06/07/95 | 1203.29           | 35.71          | 1167.58               |
|         | 07/05/95 | 1203.29           | 31.71          | 1171.58               |
|         | 07/24/95 | 1203.29           | 32.2           | 1171.09               |
|         | 08/17/95 | 1203.29           | 36.32          | 1166.97               |
|         | 09/13/95 | 1203.29           | 32.3           | 1170.99               |
|         | 10/17/95 | 1203.29           | 32.83          | 1170.46               |
|         | 11/10/95 | 1203.29           | 31.6           | 1171.69               |
|         | 12/18/95 | 1203.29           | 33.47          | 1169.82               |
|         | 01/18/96 | 1203.29           | 32.95          | 1170.34               |
|         | 02/26/96 | 1203.29           | 34.28          | 1169.01               |
|         | 03/15/96 | 1203.29           | 45.1           | 1158.19               |
|         | 04/01/96 | 1203.29           | 34.3           | 1168.99               |
|         | 05/09/96 | 1203.29           | 41.86          | 1161.43               |
|         | 05/29/96 | 1203.29           | 36.4           | 1166.89               |
|         | 06/20/96 | 1203.29           | 37.26          | 1166.03               |
|         | 07/01/96 | 1203.29           | 38.6           | 1164.69               |
|         | 08/07/96 | 1203.29           | 37.4           | 1165.89               |
|         | 09/30/96 | 1203.29           | 38.62          | 1164.67               |
|         | 10/07/96 | 1203.29           | 37.71          | 1165.58               |
|         | 11/12/96 | 1203.29           | 35.44          | 1167.85               |
|         | 11/21/96 | 1203.29           | 35.44          | 1167.85               |
|         | 12/31/96 | 1203.29           | 36             | 1167.29               |
|         | 01/15/97 | 1203.29           | 36.15          | 1167.14               |
|         | 02/18/97 | 1203.29           | 35.75          | 1167.54               |
|         | 03/20/97 | 1203.29           | 35.45          | 1167.84               |
|         | 04/03/97 | 1203.29           | 35.38          | 1167.91               |
|         | 05/02/97 | 1203.29           | 36.48          | 1166.81               |
|         | 05/30/97 | 1203.29           | 32.92          | 1170.37               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM718   | 06/30/97 | 1203.29           | 34.23          | 1169.06               |
|         | 07/25/97 | 1203.29           | 34.95          | 1168.34               |
|         | 08/26/97 | 1203.29           | 38.6           | 1164.69               |
|         | 09/30/97 | 1203.29           | 36.65          | 1166.64               |
|         | 10/15/97 | 1203.29           | 43.02          | 1160.27               |
|         | 11/05/97 | 1203.29           | 41.75          | 1161.54               |
|         | 12/30/97 | 1203.29           | 44.2           | 1159.09               |
|         | 01/27/98 | 1203.29           | 41.91          | 1161.38               |
|         | 04/13/98 | 1203.29           | 41.11          | 1162.18               |
|         | 07/28/98 | 1203.29           | 43.24          | 1160.05               |
|         | 10/12/98 | 1203.29           | 32.14          | 1171.15               |
|         | 04/09/99 | 1203.29           | 39.96          | 1163.33               |
|         | 07/16/99 | 1203.29           | 39.96          | 1163.33               |
|         | 10/13/99 | 1203.29           | 41.17          | 1162.12               |
|         | 02/08/00 | 1203.29           | 36.3           | 1166.99               |
|         | 04/07/00 | 1203.29           | 41.66          | 1161.63               |
|         | 08/16/00 | 1203.29           | 40.12          | 1163.17               |
|         | 10/06/00 | 1203.29           | 40.16          | 1163.13               |
|         | 11/01/00 | 1203.29           | 40.62          | 1162.67               |
| DM719   | 01/10/95 | 1202.48           | 30             | 1172.48               |
|         | 02/03/95 | 1202.48           | 30.03          | 1172.45               |
|         | 03/15/95 | 1202.48           | 30.04          | 1172.44               |
|         | 04/06/95 | 1202.48           | 29.3           | 1173.18               |
|         | 05/23/95 | 1202.48           | 29.58          | 1172.9                |
|         | 06/07/95 | 1202.48           | 29.28          | 1173.2                |
|         | 07/05/95 | 1202.48           | 29.3           | 1173.18               |
|         | 08/17/95 | 1202.48           | 29.3           | 1173.18               |
|         | 09/13/95 | 1202.48           | 29.31          | 1173.17               |
|         | 10/17/95 | 1202.48           | 30.66          | 1171.82               |
|         | 11/15/95 | 1202.48           | 30.08          | 1172.4                |
|         | 12/18/95 | 1202.48           | 30.18          | 1172.3                |
|         | 01/19/96 | 1202.48           | 31.9           | 1170.58               |
|         | 02/27/96 | 1202.48           | 32.18          | 1170.3                |
|         | 03/19/96 | 1202.48           | 33.75          | 1168.73               |
|         | 04/10/96 | 1202.48           | 32.75          | 1169.73               |
|         | 05/07/96 | 1202.48           | 32.35          | 1170.13               |
|         | 05/30/96 | 1202.48           | 32.35          | 1170.13               |
|         | 06/21/96 | 1202.48           | 32.54          | 1169.94               |
|         | 07/02/96 | 1202.48           | 33.17          | 1169.31               |
|         | 08/09/96 | 1202.48           | 35.23          | 1167.25               |
|         | 09/30/96 | 1202.48           | 35.22          | 1167.26               |
|         | 10/07/96 | 1202.48           | 35.22          | 1167.26               |
|         | 11/20/96 | 1202.48           | -999           | Dry                   |
|         | 12/31/96 | 1202.48           | -999           | Dry                   |
|         | 01/10/97 | 1202.48           | 35.23          | 1167.25               |
|         | 02/18/97 | 1202.48           | -999           | Dry                   |
|         | 03/20/97 | 1202.48           | 33.31          | 1169.17               |
|         | 04/03/97 | 1202.48           | 32.68          | 1169.8                |
|         | 05/06/97 | 1202.48           | 33.2           | 1169.28               |
|         | 06/30/97 | 1202.48           | -999           | Dry                   |
|         | 07/25/97 | 1202.48           | 33.04          | 1169.44               |
|         | 08/26/97 | 1202.48           | 53.2           | 1149.28               |
|         | 09/30/97 | 1202.48           | 32.55          | 1169.93               |
|         | 10/15/97 | 1202.48           | 32.64          | 1169.84               |
|         | 11/06/97 | 1202.48           | 34.34          | 1168.14               |
|         | 12/30/97 | 1202.48           | 33.3           | 1169.18               |
| DM720   | 01/10/95 | 1199.27           | 29.1           | 1170.17               |
|         | 02/03/95 | 1199.27           | 26.61          | 1172.66               |
|         | 03/15/95 | 1199.27           | 26.65          | 1172.62               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM720     | 04/06/95 | 1199.27           | 25.8           | 1173.47               |
|           | 05/18/95 | 1199.27           | 25.64          | 1173.63               |
|           | 06/07/95 | 1199.27           | 25.66          | 1173.61               |
|           | 07/05/95 | 1199.27           | 25.68          | 1173.59               |
|           | 08/17/95 | 1199.27           | 25.66          | 1173.61               |
|           | 09/13/95 | 1199.27           | 25.7           | 1173.57               |
|           | 10/17/95 | 1199.27           | 27.05          | 1172.22               |
|           | 11/14/95 | 1199.27           | 26.74          | 1172.53               |
|           | 12/21/95 | 1199.27           | 26.8           | 1172.47               |
|           | 01/19/96 | 1199.27           | 26.72          | 1172.55               |
|           | 02/27/96 | 1199.27           | 27.69          | 1171.58               |
|           | 03/19/96 | 1199.27           | 27.95          | 1171.32               |
|           | 04/11/96 | 1199.27           | 27.73          | 1171.54               |
|           | 05/06/96 | 1199.27           | 27.91          | 1171.36               |
|           | 05/30/96 | 1199.27           | 32.26          | 1167.01               |
|           | 06/19/96 | 1199.27           | 28.1           | 1171.17               |
|           | 07/02/96 | 1199.27           | 29.8           | 1169.47               |
|           | 08/08/96 | 1199.27           | 27.95          | 1171.32               |
|           | 09/30/96 | 1199.27           | 27.97          | 1171.3                |
|           | 10/07/96 | 1199.27           | 27.96          | 1171.31               |
|           | 11/05/96 | 1199.27           | 27.5           | 1171.77               |
|           | 11/11/96 | 1199.27           | 27.5           | 1171.77               |
|           | 12/31/96 | 1199.27           | 27.58          | 1171.69               |
|           | 01/10/97 | 1199.27           | 27.99          | 1171.28               |
|           | 02/18/97 | 1199.27           | 27.65          | 1171.62               |
|           | 03/20/97 | 1199.27           | 27.98          | 1171.29               |
|           | 04/02/97 | 1199.27           | 37.37          | 1161.9                |
|           | 04/29/97 | 1199.27           | 26.91          | 1172.36               |
|           | 06/30/97 | 1199.27           | 26.7           | 1172.57               |
|           | 07/28/97 | 1199.27           | 27.13          | 1172.14               |
|           | 08/26/97 | 1199.27           | 27.75          | 1171.52               |
|           | 09/30/97 | 1199.27           | 26.85          | 1172.42               |
|           | 10/16/97 | 1199.27           | 26.73          | 1172.54               |
|           | 10/30/97 | 1199.27           | 27             | 1172.27               |
|           | 11/26/97 | 1199.27           | 27.35          | 1171.92               |
|           | 12/30/97 | 1199.27           | 27.15          | 1172.12               |
|           | 01/27/98 | 1199.27           | 77.31          | 1121.96               |
|           | 04/13/98 | 1199.27           | 25.39          | 1173.88               |
|           | 07/28/98 | 1199.27           | 25.51          | 1173.76               |
|           | 10/12/98 | 1199.27           | 25.44          | 1173.83               |
|           | 04/09/99 | 1199.27           | 28.1           | 1171.17               |
|           | 07/16/99 | 1199.27           | 28.63          | 1170.64               |
|           | 10/13/99 | 1199.27           | 27.98          | 1171.29               |
|           | 02/07/00 | 1199.27           | 28.98          | 1170.29               |
|           | 04/07/00 | 1199.27           | 28.18          | 1171.09               |
|           | 08/15/00 | 1199.27           | 20.06          | 1179.21               |
|           | 10/06/00 | 1199.27           | 27.74          | 1171.53               |
| DM721-045 | 01/12/95 | 1198.18           | 28.67          | 1169.51               |
|           | 03/15/95 | 1198.18           | 32.5           | 1165.68               |
|           | 04/05/95 | 1198.18           | 29.27          | 1168.91               |
|           | 05/04/95 | 1198.18           | 28.91          | 1169.27               |
|           | 06/20/95 | 1198.18           | 31.69          | 1166.49               |
|           | 07/19/95 | 1198.18           | 29.22          | 1168.96               |
|           | 08/30/95 | 1198.18           | 29.26          | 1168.92               |
|           | 10/19/95 | 1198.18           | 32             | 1166.18               |
|           | 11/29/95 | 1198.18           | 31.95          | 1166.23               |
|           | 01/24/96 | 1198.18           | 31.96          | 1166.22               |
|           | 02/27/96 | 1198.18           | 31.42          | 1166.76               |
|           | 03/28/96 | 1198.18           | 32.46          | 1165.72               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM721-045 | 04/19/96 | 1198.18           | 28.81          | 1169.37               |
|           | 05/29/96 | 1198.18           | 34.41          | 1163.77               |
|           | 06/13/96 | 1198.18           | 35             | 1163.18               |
|           | 07/09/96 | 1198.18           | 35.09          | 1163.09               |
|           | 08/15/96 | 1198.18           | 35.15          | 1163.03               |
|           | 09/10/96 | 1198.18           | 32.96          | 1165.22               |
|           | 10/16/96 | 1198.18           | 35.22          | 1162.96               |
|           | 11/29/96 | 1198.18           | 35.22          | 1162.96               |
|           | 12/31/96 | 1198.18           | 32.59          | 1165.59               |
|           | 01/15/97 | 1198.18           | 35.31          | 1162.87               |
|           | 02/20/97 | 1198.18           | 33.46          | 1164.72               |
|           | 03/25/97 | 1198.18           | 32.62          | 1165.56               |
|           | 04/09/97 | 1198.18           | 32.78          | 1165.4                |
|           | 04/09/97 | 1198.18           | 32.79          | 1165.39               |
|           | 06/17/97 | 1198.18           | 32.69          | 1165.49               |
|           | 07/30/97 | 1198.18           | 33.19          | 1164.99               |
|           | 08/27/97 | 1198.18           | 32.47          | 1165.71               |
|           | 09/30/97 | 1198.18           | 31.39          | 1166.79               |
|           | 10/14/97 | 1198.18           | 30.73          | 1167.45               |
|           | 11/28/97 | 1198.18           | 32.06          | 1166.12               |
|           | 12/16/97 | 1198.18           | 30.75          | 1167.43               |
|           | 01/27/98 | 1198.18           | 31.99          | 1166.19               |
|           | 04/16/98 | 1198.18           | 29.35          | 1168.83               |
|           | 08/06/98 | 1198.18           | 27.99          | 1170.19               |
|           | 10/20/98 | 1198.18           | 28.13          | 1170.05               |
|           | 04/09/99 | 1198.18           | 32.65          | 1165.53               |
|           | 07/09/99 | 1198.18           | 34.39          | 1163.79               |
|           | 02/16/00 | 1198.18           | 35.31          | 1162.87               |
|           | 04/28/00 | 1198.18           | 36.06          | 1162.12               |
|           | 08/17/00 | 1198.18           | 33.35          | 1164.83               |
|           | 11/15/00 | 1198.18           | 34.13          | 1164.05               |
| DM721-065 | 01/12/95 | 1198.18           | 29.24          | 1168.94               |
|           | 03/15/95 | 1198.18           | 31.41          | 1166.77               |
|           | 04/05/95 | 1198.18           | 28.93          | 1169.25               |
|           | 05/04/95 | 1198.18           | 28.74          | 1169.44               |
|           | 06/20/95 | 1198.18           | 31.23          | 1166.95               |
|           | 07/19/95 | 1198.18           | 28.99          | 1169.19               |
|           | 08/30/95 | 1198.18           | 40.65          | 1157.53               |
|           | 10/19/95 | 1198.18           | 31.9           | 1166.28               |
|           | 11/29/95 | 1198.18           | 31.59          | 1166.59               |
|           | 01/24/96 | 1198.18           | 31.6           | 1166.58               |
|           | 02/27/96 | 1198.18           | 31.55          | 1166.63               |
|           | 03/28/96 | 1198.18           | 32.34          | 1165.84               |
|           | 04/19/96 | 1198.18           | 28.69          | 1169.49               |
|           | 05/29/96 | 1198.18           | 33.64          | 1164.54               |
|           | 06/13/96 | 1198.18           | 34.2           | 1163.98               |
|           | 07/09/96 | 1198.18           | 34.23          | 1163.95               |
|           | 08/15/96 | 1198.18           | 34.26          | 1163.92               |
|           | 09/10/96 | 1198.18           | 32.8           | 1165.38               |
|           | 10/16/96 | 1198.18           | 34.34          | 1163.84               |
|           | 11/29/96 | 1198.18           | 34.34          | 1163.84               |
|           | 12/31/96 | 1198.18           | 32.8           | 1165.38               |
|           | 01/15/97 | 1198.18           | 34.34          | 1163.84               |
|           | 02/20/97 | 1198.18           | 32.9           | 1165.28               |
|           | 03/25/97 | 1198.18           | 32.38          | 1165.8                |
|           | 04/09/97 | 1198.18           | 32.34          | 1165.84               |
|           | 04/09/97 | 1198.18           | 32.34          | 1165.84               |
|           | 06/17/97 | 1198.18           | 32.28          | 1165.9                |
|           | 07/30/97 | 1198.18           | 32.67          | 1165.51               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM721-065 | 08/27/97 | 1198.18           | 32.01          | 1166.17               |
|           | 09/30/97 | 1198.18           | 31.13          | 1167.05               |
|           | 10/14/97 | 1198.18           | 30.56          | 1167.62               |
|           | 11/28/97 | 1198.18           | 31.72          | 1166.46               |
|           | 12/16/97 | 1198.18           | 30.68          | 1167.5                |
|           | 01/27/98 | 1198.18           | 31.66          | 1166.52               |
|           | 04/16/98 | 1198.18           | 29.12          | 1169.06               |
|           | 08/06/98 | 1198.18           | 27.88          | 1170.3                |
|           | 10/20/98 | 1198.18           | 28.36          | 1169.82               |
|           | 04/09/99 | 1198.18           | 32.32          | 1165.86               |
|           | 07/09/99 | 1198.18           | 33.8           | 1164.38               |
|           | 02/16/00 | 1198.18           | 34.84          | 1163.34               |
|           | 04/28/00 | 1198.18           | 35.42          | 1162.76               |
| DM721-125 | 08/17/00 | 1198.18           | 33.01          | 1165.17               |
|           | 11/15/00 | 1198.18           | 33.62          | 1164.56               |
|           | 01/12/95 | 1198.18           | 28.81          | 1169.37               |
|           | 03/15/95 | 1198.18           | 30.51          | 1167.67               |
|           | 04/05/95 | 1198.18           | 28.66          | 1169.52               |
|           | 05/04/95 | 1198.18           | 29.12          | 1169.06               |
|           | 06/20/95 | 1198.18           | 30.91          | 1167.27               |
|           | 07/19/95 | 1198.18           | 29.13          | 1169.05               |
|           | 08/30/95 | 1198.18           | 29.15          | 1169.03               |
|           | 10/19/95 | 1198.18           | 31.07          | 1167.11               |
|           | 11/29/95 | 1198.18           | 23.53          | 1174.65               |
|           | 01/24/96 | 1198.18           | 31.25          | 1166.93               |
|           | 02/27/96 | 1198.18           | 30.97          | 1167.21               |
|           | 03/28/96 | 1198.18           | 31.63          | 1166.55               |
|           | 04/19/96 | 1198.18           | 29.04          | 1169.14               |
|           | 05/29/96 | 1198.18           | 33.05          | 1165.13               |
|           | 06/13/96 | 1198.18           | 33.64          | 1164.54               |
|           | 07/09/96 | 1198.18           | 33.64          | 1164.54               |
|           | 08/15/96 | 1198.18           | 33.69          | 1164.49               |
|           | 09/10/96 | 1198.18           | 32.45          | 1165.73               |
|           | 10/16/96 | 1198.18           | 33.76          | 1164.42               |
|           | 11/29/96 | 1198.18           | 33.77          | 1164.41               |
|           | 12/31/96 | 1198.18           | 32.19          | 1165.99               |
|           | 01/15/97 | 1198.18           | 33.84          | 1164.34               |
|           | 02/20/97 | 1198.18           | 32.42          | 1165.76               |
|           | 03/25/97 | 1198.18           | 32.35          | 1165.83               |
|           | 04/09/97 | 1198.18           | 32.34          | 1165.84               |
|           | 04/09/97 | 1198.18           | 32.34          | 1165.84               |
|           | 06/17/97 | 1198.18           | 32.59          | 1165.59               |
|           | 07/30/97 | 1198.18           | 32.76          | 1165.42               |
|           | 08/27/97 | 1198.18           | 31.78          | 1166.4                |
|           | 09/30/97 | 1198.18           | 31.12          | 1167.06               |
|           | 10/14/97 | 1198.18           | 30.84          | 1167.34               |
|           | 11/28/97 | 1198.18           | 31.51          | 1166.67               |
|           | 12/16/97 | 1198.18           | 30.64          | 1167.54               |
|           | 01/27/98 | 1198.18           | 31.49          | 1166.69               |
|           | 04/16/98 | 1198.18           | 29.22          | 1168.96               |
|           | 08/06/98 | 1198.18           | 28.74          | 1169.44               |
|           | 10/20/98 | 1198.18           | 29.01          | 1169.17               |
|           | 04/09/99 | 1198.18           | 31.93          | 1166.25               |
|           | 07/09/99 | 1198.18           | 33.45          | 1164.73               |
|           | 02/16/00 | 1198.18           | 34.01          | 1164.17               |
|           | 04/28/00 | 1198.18           | 34.33          | 1163.85               |
|           | 08/17/00 | 1198.18           | 32.75          | 1165.43               |
|           | 11/15/00 | 1198.18           | 32.83          | 1165.35               |
| DM721-185 | 01/12/95 | 1198.18           | 28.9           | 1169.28               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM721-185 | 03/15/95 | 1198.18           | 30.57          | 1167.61               |
|           | 04/05/95 | 1198.18           | 29.31          | 1168.87               |
|           | 05/04/95 | 1198.18           | 29.5           | 1168.68               |
|           | 06/20/95 | 1198.18           | 31             | 1167.18               |
|           | 07/19/95 | 1198.18           | 29.27          | 1168.91               |
|           | 08/30/95 | 1198.18           | 29.22          | 1168.96               |
|           | 10/19/95 | 1198.18           | 31.06          | 1167.12               |
|           | 11/29/95 | 1198.18           | 30.91          | 1167.27               |
|           | 01/24/96 | 1198.18           | 31.4           | 1166.78               |
|           | 02/27/96 | 1198.18           | 31.16          | 1167.02               |
|           | 03/28/96 | 1198.18           | 31.73          | 1166.45               |
|           | 04/19/96 | 1198.18           | 29.46          | 1168.72               |
|           | 05/29/96 | 1198.18           | 33.03          | 1165.15               |
|           | 06/13/96 | 1198.18           | 33.66          | 1164.52               |
|           | 07/09/96 | 1198.18           | 33.7           | 1164.48               |
|           | 08/15/96 | 1198.18           | 33.77          | 1164.41               |
|           | 09/10/96 | 1198.18           | 32.55          | 1165.63               |
|           | 10/16/96 | 1198.18           | 33.83          | 1164.35               |
|           | 11/29/96 | 1198.18           | 33.84          | 1164.34               |
|           | 12/31/96 | 1198.18           | 32.28          | 1165.9                |
|           | 01/15/97 | 1198.18           | 33.91          | 1164.27               |
|           | 02/20/97 | 1198.18           | 32.69          | 1165.49               |
|           | 03/25/97 | 1198.18           | 32.53          | 1165.65               |
|           | 04/09/97 | 1198.18           | 32.52          | 1165.66               |
|           | 04/09/97 | 1198.18           | 32.52          | 1165.66               |
|           | 06/17/97 | 1198.18           | 32.79          | 1165.39               |
|           | 07/30/97 | 1198.18           | 32.87          | 1165.31               |
|           | 08/27/97 | 1198.18           | 31.96          | 1166.22               |
|           | 09/30/97 | 1198.18           | 31.31          | 1166.87               |
|           | 10/14/97 | 1198.18           | 31.04          | 1167.14               |
|           | 11/28/97 | 1198.18           | 31.69          | 1166.49               |
|           | 12/16/97 | 1198.18           | 30.92          | 1167.26               |
|           | 01/27/98 | 1198.18           | 31.65          | 1166.53               |
|           | 04/16/98 | 1198.18           | 29.39          | 1168.79               |
|           | 08/06/98 | 1198.18           | 29.16          | 1169.02               |
|           | 10/20/98 | 1198.18           | 29.37          | 1168.81               |
|           | 04/09/99 | 1198.18           | 32.05          | 1166.13               |
|           | 07/09/99 | 1198.18           | 33.54          | 1164.64               |
|           | 02/16/00 | 1198.18           | 34             | 1164.18               |
|           | 04/28/00 | 1198.18           | 34.2           | 1163.98               |
|           | 08/17/00 | 1198.18           | 32.84          | 1165.34               |
|           | 11/15/00 | 1198.18           | 32.83          | 1165.35               |
| DM721-260 | 01/12/95 | 1198.18           | 29.13          | 1169.05               |
|           | 03/15/95 | 1198.18           | 30.86          | 1167.32               |
|           | 04/05/95 | 1198.18           | 29.68          | 1168.5                |
|           | 05/04/95 | 1198.18           | 29.81          | 1168.37               |
|           | 06/20/95 | 1198.18           | 31.26          | 1166.92               |
|           | 07/19/95 | 1198.18           | 29.77          | 1168.41               |
|           | 08/30/95 | 1198.18           | 29.77          | 1168.41               |
|           | 10/19/95 | 1198.18           | 31.31          | 1166.87               |
|           | 11/29/95 | 1198.18           | 31.1           | 1167.08               |
|           | 01/24/96 | 1198.18           | 31.75          | 1166.43               |
|           | 02/27/96 | 1198.18           | 31.47          | 1166.71               |
|           | 03/28/96 | 1198.18           | 32.04          | 1166.14               |
|           | 04/19/96 | 1198.18           | 30.45          | 1167.73               |
|           | 05/29/96 | 1198.18           | 33.28          | 1164.9                |
|           | 06/13/96 | 1198.18           | 33.91          | 1164.27               |
|           | 07/09/96 | 1198.18           | 33.91          | 1164.27               |
|           | 08/15/96 | 1198.18           | 33.87          | 1164.31               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM721-260 | 09/10/96 | 1198.18           | 32.88          | 1165.3                |
|           | 10/16/96 | 1198.18           | 33.94          | 1164.24               |
|           | 11/29/96 | 1198.18           | 33.94          | 1164.24               |
|           | 12/31/96 | 1198.18           | 32.61          | 1165.57               |
|           | 01/15/97 | 1198.18           | 33.96          | 1164.22               |
|           | 02/20/97 | 1198.18           | 32.98          | 1165.2                |
|           | 03/25/97 | 1198.18           | 32.82          | 1165.36               |
|           | 04/09/97 | 1198.18           | 32.82          | 1165.36               |
|           | 04/09/97 | 1198.18           | 32.82          | 1165.36               |
|           | 06/17/97 | 1198.18           | 33.08          | 1165.1                |
|           | 07/30/97 | 1198.18           | 33.23          | 1164.95               |
|           | 08/27/97 | 1198.18           | 32.28          | 1165.9                |
|           | 09/30/97 | 1198.18           | 31.64          | 1166.54               |
|           | 10/14/97 | 1198.18           | 31.35          | 1166.83               |
|           | 11/28/97 | 1198.18           | 31.96          | 1166.22               |
|           | 12/16/97 | 1198.18           | 31.22          | 1166.96               |
|           | 01/27/98 | 1198.18           | 31.95          | 1166.23               |
|           | 04/16/98 | 1198.18           | 29.72          | 1168.46               |
|           | 08/06/98 | 1198.18           | 29.53          | 1168.65               |
|           | 10/20/98 | 1198.18           | 29.73          | 1168.45               |
|           | 04/09/99 | 1198.18           | 32.31          | 1165.87               |
|           | 07/09/99 | 1198.18           | 33.81          | 1164.37               |
|           | 02/16/00 | 1198.18           | 34.14          | 1164.04               |
|           | 04/28/00 | 1198.18           | 34.34          | 1163.84               |
|           | 08/17/00 | 1198.18           | 33.05          | 1165.13               |
|           | 11/15/00 | 1198.18           | 33.03          | 1165.15               |
| DM721-280 | 01/12/95 | 1198.18           | 29.32          | 1168.86               |
|           | 03/15/95 | 1198.18           | 31.11          | 1167.07               |
|           | 04/05/95 | 1198.18           | 30.11          | 1168.07               |
|           | 05/04/95 | 1198.18           | 30.14          | 1168.04               |
|           | 06/20/95 | 1198.18           | 31.37          | 1166.81               |
|           | 07/19/95 | 1198.18           | 30.13          | 1168.05               |
|           | 08/30/95 | 1198.18           | 30.15          | 1168.03               |
|           | 10/19/95 | 1198.18           | 31.52          | 1166.66               |
|           | 11/29/95 | 1198.18           | 31.45          | 1166.73               |
|           | 01/24/96 | 1198.18           | 31.84          | 1166.34               |
|           | 02/27/96 | 1198.18           | 31.74          | 1166.44               |
|           | 03/28/96 | 1198.18           | 32.23          | 1165.95               |
|           | 04/19/96 | 1198.18           | 29.8           | 1168.38               |
|           | 05/29/96 | 1198.18           | 33.5           | 1164.68               |
|           | 06/13/96 | 1198.18           | 34.24          | 1163.94               |
|           | 07/09/96 | 1198.18           | 34.2           | 1163.98               |
|           | 08/15/96 | 1198.18           | 34.29          | 1163.89               |
|           | 09/10/96 | 1198.18           | 33.17          | 1165.01               |
|           | 10/16/96 | 1198.18           | 34.37          | 1163.81               |
|           | 11/29/96 | 1198.18           | 34.39          | 1163.79               |
|           | 12/31/96 | 1198.18           | -999           | Dry                   |
|           | 01/15/97 | 1198.18           | 34.42          | 1163.76               |
|           | 02/20/97 | 1198.18           | 33.24          | 1164.94               |
|           | 03/25/97 | 1198.18           | 33.21          | 1164.97               |
|           | 04/09/97 | 1198.18           | 33.28          | 1164.9                |
|           | 04/09/97 | 1198.18           | 33.28          | 1164.9                |
|           | 06/17/97 | 1198.18           | 33.59          | 1164.59               |
|           | 07/30/97 | 1198.18           | 33.58          | 1164.6                |
|           | 08/27/97 | 1198.18           | 32.63          | 1165.55               |
|           | 09/30/97 | 1198.18           | 32.04          | 1166.14               |
|           | 10/14/97 | 1198.18           | 31.67          | 1166.51               |
|           | 11/28/97 | 1198.18           | 32.33          | 1165.85               |
|           | 12/16/97 | 1198.18           | 31.63          | 1166.55               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM721-280 | 01/27/98 | 1198.18           | 32.38          | 1165.8                |
|           | 04/16/98 | 1198.18           | 30.19          | 1167.99               |
|           | 08/06/98 | 1198.18           | 30.06          | 1168.12               |
|           | 10/20/98 | 1198.18           | 30.29          | 1167.89               |
|           | 04/09/99 | 1198.18           | 32.79          | 1165.39               |
|           | 07/09/99 | 1198.18           | 34.24          | 1163.94               |
|           | 02/16/00 | 1198.18           | 34.57          | 1163.61               |
|           | 04/28/00 | 1198.18           | 34.65          | 1163.53               |
|           | 08/17/00 | 1198.18           | 33.52          | 1164.66               |
|           | 11/15/00 | 1198.18           | 33.3           | 1164.88               |
| DM722-047 | 01/12/95 | 1198.18           | 32.93          | 1165.25               |
|           | 03/15/95 | 1194.37           | 37.79          | 1156.58               |
|           | 04/04/95 | 1194.37           | 35.92          | 1158.45               |
|           | 05/04/95 | 1194.37           | 36.11          | 1158.26               |
|           | 06/20/95 | 1194.37           | 38.66          | 1155.71               |
|           | 07/20/95 | 1194.37           | 39.47          | 1154.9                |
|           | 08/29/95 | 1194.37           | 36.93          | 1157.44               |
|           | 10/19/95 | 1194.37           | 42.93          | 1151.44               |
|           | 11/29/95 | 1194.37           | 36.4           | 1157.97               |
|           | 01/23/96 | 1194.37           | 37.37          | 1157                  |
|           | 02/27/96 | 1194.37           | 33.69          | 1160.68               |
|           | 03/28/96 | 1194.37           | 40.48          | 1153.89               |
|           | 04/18/96 | 1194.37           | 37.5           | 1156.87               |
|           | 05/29/96 | 1194.37           | 40.52          | 1153.85               |
|           | 06/13/96 | 1194.37           | 41.8           | 1152.57               |
|           | 07/09/96 | 1194.37           | 41.77          | 1152.6                |
|           | 08/15/96 | 1194.37           | 41.84          | 1152.53               |
|           | 09/11/96 | 1194.37           | 39.65          | 1154.72               |
|           | 10/16/96 | 1194.37           | 41.94          | 1152.43               |
|           | 11/29/96 | 1194.37           | 41.53          | 1152.84               |
|           | 12/31/96 | 1194.37           | -999           | Dry                   |
|           | 01/17/97 | 1194.37           | -999           | Dry                   |
|           | 06/16/97 | 1194.37           | -999           | Dry                   |
|           | 08/27/97 | 1194.37           | 33.26          | 1161.11               |
|           | 09/30/97 | 1194.37           | -999           | Dry                   |
|           | 10/15/97 | 1194.37           | -999           | Dry                   |
|           | 11/26/97 | 1194.37           | 46.82          | 1147.55               |
|           | 12/30/97 | 1194.37           | -999           | Dry                   |
|           | 01/27/98 | 1194.37           | 37.76          | 1156.61               |
|           | 04/16/98 | 1194.37           | -999           | Dry                   |
|           | 04/08/99 | 1194.37           | 39.36          | 1155.01               |
|           | 07/09/99 | 1194.37           | 40.6           | 1153.77               |
|           | 12/13/99 | 1194.37           | 40.33          | 1154.04               |
|           | 02/14/00 | 1194.37           | 40.62          | 1153.75               |
|           | 04/07/00 | 1194.37           | 40.43          | 1153.94               |
|           | 08/17/00 | 1194.37           | 30.44          | 1163.93               |
|           | 10/13/00 | 1194.37           | 39.24          | 1155.13               |
| DM722-075 | 12/31/96 | 1194.37           | 38.23          | 1156.14               |
|           | 01/17/97 | 1194.37           | 38.28          | 1156.09               |
|           | 02/20/97 | 1194.37           | 39.01          | 1155.36               |
|           | 03/25/97 | 1194.37           | 38.2           | 1156.17               |
|           | 04/09/97 | 1194.37           | 38.53          | 1155.84               |
|           | 04/09/97 | 1194.37           | 38.61          | 1155.76               |
|           | 06/16/97 | 1194.37           | 39.35          | 1155.02               |
|           | 07/30/97 | 1194.37           | 35.79          | 1158.58               |
|           | 08/27/97 | 1194.37           | 34.18          | 1160.19               |
|           | 09/30/97 | 1194.37           | 33.14          | 1161.23               |
|           | 10/15/97 | 1194.37           | 32.91          | 1161.46               |
|           | 11/26/97 | 1194.37           | 33.52          | 1160.85               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM722-075 | 12/30/97 | 1194.37           | 31.89          | 1162.48               |
|           | 01/27/98 | 1194.37           | 35.55          | 1158.82               |
|           | 04/16/98 | 1194.37           | 35.8           | 1158.57               |
|           | 07/30/98 | 1194.37           | 42.7           | 1151.67               |
|           | 10/20/98 | 1194.37           | 34.68          | 1159.69               |
|           | 04/08/99 | 1194.37           | 38.28          | 1156.09               |
|           | 07/09/99 | 1194.37           | 39.29          | 1155.08               |
|           | 12/13/99 | 1194.37           | 39.05          | 1155.32               |
|           | 02/14/00 | 1194.37           | 39.29          | 1155.08               |
|           | 04/07/00 | 1194.37           | 38.87          | 1155.5                |
|           | 08/17/00 | 1194.37           | 38.4           | 1155.97               |
|           | 10/13/00 | 1194.37           | 38.08          | 1156.29               |
| DM722-100 | 01/12/95 | 1194.37           | 32.33          | 1162.04               |
|           | 03/15/95 | 1194.37           | 36             | 1158.37               |
|           | 04/04/95 | 1194.37           | 34.05          | 1160.32               |
|           | 05/04/95 | 1194.37           | 34.06          | 1160.31               |
|           | 06/20/95 | 1194.37           | 37.09          | 1157.28               |
|           | 07/20/95 | 1194.37           | 37.73          | 1156.64               |
|           | 08/29/95 | 1194.37           | 36.15          | 1158.22               |
|           | 10/19/95 | 1194.37           | 34.99          | 1159.38               |
|           | 11/29/95 | 1194.37           | 35.39          | 1158.98               |
|           | 01/23/96 | 1194.37           | 36.21          | 1158.16               |
|           | 02/27/96 | 1194.37           | 33.12          | 1161.25               |
|           | 03/28/96 | 1194.37           | 34.34          | 1160.03               |
|           | 04/18/96 | 1194.37           | 35.73          | 1158.64               |
|           | 05/29/96 | 1194.37           | 38.7           | 1155.67               |
|           | 06/13/96 | 1194.37           | 39.85          | 1154.52               |
|           | 07/09/96 | 1194.37           | 39.77          | 1154.6                |
|           | 08/15/96 | 1194.37           | 39.91          | 1154.46               |
|           | 09/11/96 | 1194.37           | 37.26          | 1157.11               |
|           | 10/16/96 | 1194.37           | 40.07          | 1154.3                |
|           | 11/29/96 | 1194.37           | 39.77          | 1154.6                |
|           | 12/31/96 | 1194.37           | 37.88          | 1156.49               |
|           | 01/17/97 | 1194.37           | 37.84          | 1156.53               |
|           | 02/20/97 | 1194.37           | 38.57          | 1155.8                |
|           | 03/25/97 | 1194.37           | 37.9           | 1156.47               |
|           | 04/09/97 | 1194.37           | 38.15          | 1156.22               |
|           | 04/09/97 | 1194.37           | 38.16          | 1156.21               |
|           | 06/16/97 | 1194.37           | 38.79          | 1155.58               |
|           | 07/30/97 | 1194.37           | 36.16          | 1158.21               |
|           | 08/27/97 | 1194.37           | 34.48          | 1159.89               |
|           | 09/30/97 | 1194.37           | 33.5           | 1160.87               |
|           | 10/15/97 | 1194.37           | 33.39          | 1160.98               |
|           | 11/26/97 | 1194.37           | 33.83          | 1160.54               |
|           | 12/30/97 | 1194.37           | 32.07          | 1162.3                |
|           | 01/27/98 | 1194.37           | 35.26          | 1159.11               |
|           | 04/16/98 | 1194.37           | 35.24          | 1159.13               |
|           | 07/30/98 | 1194.37           | 42.19          | 1152.18               |
|           | 10/20/98 | 1194.37           | 34.35          | 1160.02               |
|           | 04/08/99 | 1194.37           | 37.73          | 1156.64               |
|           | 07/09/99 | 1194.37           | 38.76          | 1155.61               |
|           | 12/13/99 | 1194.37           | 38.52          | 1155.85               |
|           | 02/14/00 | 1194.37           | 38.77          | 1155.6                |
|           | 04/07/00 | 1194.37           | 38.32          | 1156.05               |
|           | 08/17/00 | 1194.37           | 38.06          | 1156.31               |
|           | 10/13/00 | 1194.37           | 37.68          | 1156.69               |
| DM722-120 | 12/31/96 | 1194.37           | 37.76          | 1156.61               |
|           | 01/17/97 | 1194.37           | 37.72          | 1156.65               |
|           | 02/20/97 | 1194.37           | 38.37          | 1156                  |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM722-120 | 03/25/97 | 1194.37           | 37.75          | 1156.62               |
|           | 04/09/97 | 1194.37           | 38.02          | 1156.35               |
|           | 04/09/97 | 1194.37           | 38.02          | 1156.35               |
|           | 06/16/97 | 1194.37           | 38.74          | 1155.63               |
|           | 07/30/97 | 1194.37           | 36.19          | 1158.18               |
|           | 08/27/97 | 1194.37           | 34.46          | 1159.91               |
|           | 09/30/97 | 1194.37           | 33.5           | 1160.87               |
|           | 10/15/97 | 1194.37           | 33.37          | 1161                  |
|           | 11/26/97 | 1194.37           | 33.78          | 1160.59               |
|           | 12/30/97 | 1194.37           | 32.08          | 1162.29               |
|           | 01/27/98 | 1194.37           | 35.22          | 1159.15               |
|           | 04/16/98 | 1194.37           | 35.18          | 1159.19               |
|           | 07/30/98 | 1194.37           | 42.16          | 1152.21               |
|           | 10/20/98 | 1194.37           | 34.31          | 1160.06               |
|           | 04/08/99 | 1194.37           | 37.66          | 1156.71               |
|           | 07/09/99 | 1194.37           | 38.67          | 1155.7                |
|           | 12/13/99 | 1194.37           | 38.43          | 1155.94               |
|           | 02/14/00 | 1194.37           | 38.7           | 1155.67               |
|           | 04/07/00 | 1194.37           | 38.24          | 1156.13               |
|           | 08/17/00 | 1194.37           | 37.98          | 1156.39               |
|           | 10/13/00 | 1194.37           | 37.62          | 1156.75               |
| DM722-145 | 01/12/95 | 1194.37           | 31.44          | 1162.93               |
|           | 03/15/95 | 1194.37           | 35.14          | 1159.23               |
|           | 04/04/95 | 1194.37           | 33.18          | 1161.19               |
|           | 05/04/95 | 1194.37           | 33.23          | 1161.14               |
|           | 06/20/95 | 1194.37           | 36.22          | 1158.15               |
|           | 07/20/95 | 1194.37           | 37.84          | 1156.53               |
|           | 08/29/95 | 1194.37           | 35.42          | 1158.95               |
|           | 10/19/95 | 1194.37           | 34.48          | 1159.89               |
|           | 11/29/95 | 1194.37           | 34.81          | 1159.56               |
|           | 01/23/96 | 1194.37           | 35.66          | 1158.71               |
|           | 02/27/96 | 1194.37           | 32.66          | 1161.71               |
|           | 03/28/96 | 1194.37           | 33.68          | 1160.69               |
|           | 04/18/96 | 1194.37           | 34.86          | 1159.51               |
|           | 05/29/96 | 1194.37           | 37.78          | 1156.59               |
|           | 06/13/96 | 1194.37           | 33.83          | 1160.54               |
|           | 07/09/96 | 1194.37           | 38.77          | 1155.6                |
|           | 08/15/96 | 1194.37           | 38.9           | 1155.47               |
|           | 09/11/96 | 1194.37           | 36.32          | 1158.05               |
|           | 10/16/96 | 1194.37           | 38.98          | 1155.39               |
|           | 12/31/96 | 1194.37           | 37.11          | 1157.26               |
|           | 01/17/97 | 1194.37           | 36.81          | 1157.56               |
|           | 02/20/97 | 1194.37           | 37.6           | 1156.77               |
|           | 03/25/97 | 1194.37           | 37.14          | 1157.23               |
|           | 04/09/97 | 1194.37           | 37.32          | 1157.05               |
|           | 04/09/97 | 1194.37           | 37.33          | 1157.04               |
|           | 06/16/97 | 1194.37           | 38.02          | 1156.35               |
|           | 07/30/97 | 1194.37           | 36.16          | 1158.21               |
|           | 08/27/97 | 1194.37           | 34.42          | 1159.95               |
|           | 09/30/97 | 1194.37           | 33.53          | 1160.84               |
|           | 10/15/97 | 1194.37           | 33.78          | 1160.59               |
|           | 11/26/97 | 1194.37           | 35.82          | 1158.55               |
|           | 12/30/97 | 1194.37           | 32.08          | 1162.29               |
|           | 01/27/98 | 1194.37           | 34.94          | 1159.43               |
|           | 04/16/98 | 1194.37           | 34.4           | 1159.97               |
|           | 07/30/98 | 1194.37           | 41.28          | 1153.09               |
|           | 10/20/98 | 1194.37           | 33.57          | 1160.8                |
|           | 04/08/99 | 1194.37           | 36.89          | 1157.48               |
|           | 07/09/99 | 1194.37           | 37.88          | 1156.49               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM722-145 | 12/13/99 | 1194.37           | 37.68          | 1156.69               |
|           | 02/14/00 | 1194.37           | 37.92          | 1156.45               |
|           | 04/07/00 | 1194.37           | 37.4           | 1156.97               |
|           | 08/17/00 | 1194.37           | 37.28          | 1157.09               |
|           | 10/13/00 | 1194.37           | 36.96          | 1157.41               |
| DM722-165 | 12/31/96 | 1194.37           | 36.81          | 1157.56               |
|           | 01/17/97 | 1194.37           | 36.52          | 1157.85               |
|           | 02/20/97 | 1194.37           | 37.27          | 1157.1                |
|           | 03/25/97 | 1194.37           | 36.83          | 1157.54               |
|           | 04/09/97 | 1194.37           | 36.97          | 1157.4                |
|           | 04/09/97 | 1194.37           | 36.97          | 1157.4                |
|           | 06/16/97 | 1194.37           | 37.64          | 1156.73               |
|           | 07/30/97 | 1194.37           | 36.3           | 1158.07               |
|           | 08/27/97 | 1194.37           | 34.35          | 1160.02               |
|           | 09/30/97 | 1194.37           | 33.59          | 1160.78               |
|           | 10/15/97 | 1194.37           | 33.74          | 1160.63               |
|           | 11/26/97 | 1194.37           | 34.13          | 1160.24               |
|           | 12/30/97 | 1194.37           | 32.16          | 1162.21               |
|           | 01/27/98 | 1194.37           | 34.73          | 1159.64               |
|           | 04/16/98 | 1194.37           | 34.08          | 1160.29               |
|           | 07/30/98 | 1194.37           | 41.1           | 1153.27               |
|           | 10/20/98 | 1194.37           | 33.5           | 1160.87               |
|           | 04/08/99 | 1194.37           | 36.52          | 1157.85               |
|           | 07/09/99 | 1194.37           | 37.55          | 1156.82               |
|           | 12/13/99 | 1194.37           | 37.37          | 1157                  |
|           | 02/14/00 | 1194.37           | 37.65          | 1156.72               |
|           | 04/07/00 | 1194.37           | 37.04          | 1157.33               |
|           | 08/17/00 | 1194.37           | 37.1           | 1157.27               |
|           | 10/13/00 | 1194.37           | 36.76          | 1157.61               |
| DM722-190 | 01/12/95 | 1194.37           | 30.7           | 1163.67               |
|           | 03/15/95 | 1194.37           | 33.57          | 1160.8                |
|           | 04/04/95 | 1194.37           | 32.48          | 1161.89               |
|           | 05/04/95 | 1194.37           | 32.5           | 1161.87               |
|           | 06/20/95 | 1194.37           | 34.78          | 1159.59               |
|           | 07/20/95 | 1194.37           | 35.17          | 1159.2                |
|           | 08/29/95 | 1194.37           | 33.94          | 1160.43               |
|           | 10/19/95 | 1194.37           | 33.25          | 1161.12               |
|           | 11/29/95 | 1194.37           | 33.4           | 1160.97               |
|           | 01/23/96 | 1194.37           | 34.32          | 1160.05               |
|           | 02/27/96 | 1194.37           | 32.65          | 1161.72               |
|           | 03/28/96 | 1194.37           | 33.4           | 1160.97               |
|           | 04/18/96 | 1194.37           | 34.13          | 1160.24               |
|           | 05/29/96 | 1194.37           | 36.19          | 1158.18               |
|           | 06/13/96 | 1194.37           | 37.16          | 1157.21               |
|           | 07/09/96 | 1194.37           | 37.13          | 1157.24               |
|           | 08/15/96 | 1194.37           | 37.27          | 1157.1                |
|           | 09/11/96 | 1194.37           | 35.52          | 1158.85               |
|           | 10/16/96 | 1194.37           | 37.34          | 1157.03               |
|           | 11/29/96 | 1194.37           | 36.85          | 1157.52               |
|           | 12/31/96 | 1194.37           | 35.99          | 1158.38               |
|           | 01/17/97 | 1194.37           | 35.77          | 1158.6                |
|           | 02/20/97 | 1194.37           | 36.31          | 1158.06               |
|           | 03/25/97 | 1194.37           | 36.15          | 1158.22               |
|           | 04/09/97 | 1194.37           | 36.17          | 1158.2                |
|           | 04/09/97 | 1194.37           | 36.17          | 1158.2                |
|           | 06/16/97 | 1194.37           | 36.74          | 1157.63               |
|           | 07/30/97 | 1194.37           | 35.85          | 1158.52               |
|           | 08/27/97 | 1194.37           | 34.2           | 1160.17               |
|           | 09/30/97 | 1194.37           | 33.44          | 1160.93               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM722-190 | 10/15/97 | 1194.37           | 33.53          | 1160.84               |
|           | 11/26/97 | 1194.37           | 33.85          | 1160.52               |
|           | 12/30/97 | 1194.37           | 32.3           | 1162.07               |
|           | 01/27/98 | 1194.37           | 34.09          | 1160.28               |
|           | 04/16/98 | 1194.37           | 33.37          | 1161                  |
|           | 07/30/98 | 1194.37           | 40.7           | 1153.67               |
|           | 10/20/98 | 1194.37           | 33.31          | 1161.06               |
|           | 04/08/99 | 1194.37           | 35.71          | 1158.66               |
|           | 07/09/99 | 1194.37           | 36.82          | 1157.55               |
|           | 12/13/99 | 1194.37           | 36.53          | 1157.84               |
|           | 02/14/00 | 1194.37           | 36.88          | 1157.49               |
|           | 04/07/00 | 1194.37           | 36.19          | 1158.18               |
|           | 08/17/00 | 1194.37           | 36.57          | 1157.8                |
|           | 10/13/00 | 1194.37           | 36.25          | 1158.12               |
| DM722-215 | 12/31/96 | 1194.37           | 35.95          | 1158.42               |
|           | 01/17/97 | 1194.37           | 35.81          | 1158.56               |
|           | 02/20/97 | 1194.37           | 36.17          | 1158.2                |
|           | 03/25/97 | 1194.37           | 36.07          | 1158.3                |
|           | 04/09/97 | 1194.37           | 36.1           | 1158.27               |
|           | 04/09/97 | 1194.37           | 36.11          | 1158.26               |
|           | 06/16/97 | 1194.37           | 36.7           | 1157.67               |
|           | 07/30/97 | 1194.37           | 35.85          | 1158.52               |
|           | 08/27/97 | 1194.37           | 34.18          | 1160.19               |
|           | 09/30/97 | 1194.37           | 33.5           | 1160.87               |
|           | 10/15/97 | 1194.37           | 33.52          | 1160.85               |
|           | 11/26/97 | 1194.37           | 33.75          | 1160.62               |
|           | 12/30/97 | 1194.37           | 32.34          | 1162.03               |
|           | 01/27/98 | 1194.37           | 34.04          | 1160.33               |
|           | 04/16/98 | 1194.37           | 33.36          | 1161.01               |
|           | 07/30/98 | 1194.37           | 40.68          | 1153.69               |
|           | 10/20/98 | 1194.37           | 33.34          | 1161.03               |
|           | 04/08/99 | 1194.37           | 35.67          | 1158.7                |
|           | 07/09/99 | 1194.37           | 36.65          | 1157.72               |
|           | 02/14/00 | 1194.37           | 36.83          | 1157.54               |
|           | 04/07/00 | 1194.37           | 36.14          | 1158.23               |
|           | 08/17/00 | 1194.37           | 36.53          | 1157.84               |
|           | 10/13/00 | 1194.37           | 36.21          | 1158.16               |
| DM722-240 | 01/12/95 | 1194.37           | 30.21          | 1164.16               |
|           | 03/15/95 | 1194.37           | 32.66          | 1161.71               |
|           | 04/04/95 | 1194.37           | 31.88          | 1162.49               |
|           | 05/04/95 | 1194.37           | 31.92          | 1162.45               |
|           | 06/20/95 | 1194.37           | 33.88          | 1160.49               |
|           | 07/20/95 | 1194.37           | 34.27          | 1160.1                |
|           | 08/29/95 | 1194.37           | 33.02          | 1161.35               |
|           | 10/19/95 | 1194.37           | 32.48          | 1161.89               |
|           | 11/29/95 | 1194.37           | 32.63          | 1161.74               |
|           | 01/23/96 | 1194.37           | 33.51          | 1160.86               |
|           | 02/27/96 | 1194.37           | 32.37          | 1162                  |
|           | 03/28/96 | 1194.37           | 33.02          | 1161.35               |
|           | 04/18/96 | 1194.37           | 33.6           | 1160.77               |
|           | 05/29/96 | 1194.37           | 35.28          | 1159.09               |
|           | 06/13/96 | 1194.37           | 36.2           | 1158.17               |
|           | 07/09/96 | 1194.37           | 36.2           | 1158.17               |
|           | 08/15/96 | 1194.37           | 36.32          | 1158.05               |
|           | 09/11/96 | 1194.37           | 34.89          | 1159.48               |
|           | 10/16/96 | 1194.37           | 36.35          | 1158.02               |
|           | 11/29/96 | 1194.37           | 35.79          | 1158.58               |
|           | 12/31/96 | 1194.37           | 35.28          | 1159.09               |
|           | 01/17/97 | 1194.37           | 35.23          | 1159.14               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM722-240 | 02/20/97 | 1194.37           | 35.48          | 1158.89               |
|           | 03/25/97 | 1194.37           | 35.47          | 1158.9                |
|           | 04/09/97 | 1194.37           | 35.42          | 1158.95               |
|           | 04/09/97 | 1194.37           | 35.43          | 1158.94               |
|           | 06/16/97 | 1194.37           | 35.9           | 1158.47               |
|           | 07/30/97 | 1194.37           | 35.4           | 1158.97               |
|           | 08/27/97 | 1194.37           | 33.78          | 1160.59               |
|           | 09/30/97 | 1194.37           | 33.19          | 1161.18               |
|           | 10/15/97 | 1194.37           | 33.15          | 1161.22               |
|           | 11/26/97 | 1194.37           | 33.47          | 1160.9                |
|           | 12/30/97 | 1194.37           | 32.1           | 1162.27               |
|           | 01/27/98 | 1194.37           | 33.5           | 1160.87               |
|           | 04/16/98 | 1194.37           | 32.73          | 1161.64               |
|           | 07/30/98 | 1194.37           | 40.13          | 1154.24               |
|           | 10/20/98 | 1194.37           | 32.91          | 1161.46               |
|           | 04/08/99 | 1194.37           | 35.01          | 1159.36               |
|           | 07/09/99 | 1194.37           | 36.13          | 1158.24               |
|           | 12/13/99 | 1194.37           | 35.28          | 1159.09               |
|           | 02/14/00 | 1194.37           | 36.25          | 1158.12               |
|           | 04/07/00 | 1194.37           | 35.5           | 1158.87               |
|           | 08/17/00 | 1194.37           | 36             | 1158.37               |
|           | 10/13/00 | 1194.37           | 35.67          | 1158.7                |
| DM722-260 | 12/31/96 | 1194.37           | 34.97          | 1159.4                |
|           | 01/17/97 | 1194.37           | 34.9           | 1159.47               |
|           | 02/20/97 | 1194.37           | 35.19          | 1159.18               |
|           | 03/25/97 | 1194.37           | 35.18          | 1159.19               |
|           | 04/09/97 | 1194.37           | 35.15          | 1159.22               |
|           | 04/09/97 | 1194.37           | 35.15          | 1159.22               |
|           | 06/16/97 | 1194.37           | 35.61          | 1158.76               |
|           | 07/30/97 | 1194.37           | 35.14          | 1159.23               |
|           | 08/27/97 | 1194.37           | 33.61          | 1160.76               |
|           | 09/30/97 | 1194.37           | 32.98          | 1161.39               |
|           | 10/15/97 | 1194.37           | 32.97          | 1161.4                |
|           | 11/26/97 | 1194.37           | 33.21          | 1161.16               |
|           | 12/30/97 | 1194.37           | 31.95          | 1162.42               |
|           | 01/27/98 | 1194.37           | 33.27          | 1161.1                |
|           | 04/16/98 | 1194.37           | 32.53          | 1161.84               |
|           | 07/30/98 | 1194.37           | 39.9           | 1154.47               |
|           | 10/20/98 | 1194.37           | 32.68          | 1161.69               |
|           | 04/08/99 | 1194.37           | 34.78          | 1159.59               |
|           | 07/09/99 | 1194.37           | 35.94          | 1158.43               |
|           | 12/13/99 | 1194.37           | 35.7           | 1158.67               |
|           | 02/14/00 | 1194.37           | 36.05          | 1158.32               |
|           | 04/07/00 | 1194.37           | 35.29          | 1159.08               |
|           | 08/17/00 | 1194.37           | 35.77          | 1158.6                |
|           | 10/13/00 | 1194.37           | 35.44          | 1158.93               |
| DM722-280 | 01/12/95 | 1194.37           | 29.88          | 1164.49               |
|           | 03/15/95 | 1194.37           | 32.41          | 1161.96               |
|           | 04/04/95 | 1194.37           | 31.58          | 1162.79               |
|           | 05/04/95 | 1194.37           | 31.57          | 1162.8                |
|           | 06/20/95 | 1194.37           | 33.6           | 1160.77               |
|           | 07/20/95 | 1194.37           | 33.9           | 1160.47               |
|           | 08/29/95 | 1194.37           | 32.75          | 1161.62               |
|           | 10/19/95 | 1194.37           | 32.25          | 1162.12               |
|           | 11/29/95 | 1194.37           | 32.3           | 1162.07               |
|           | 01/23/96 | 1194.37           | 33.43          | 1160.94               |
|           | 02/27/96 | 1194.37           | 32.2           | 1162.17               |
|           | 03/28/96 | 1194.37           | 32.79          | 1161.58               |
|           | 04/18/96 | 1194.37           | 33.32          | 1161.05               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM722-280 | 05/29/96 | 1194.37           | 35.08          | 1159.29               |
|           | 06/13/96 | 1194.37           | 35.89          | 1158.48               |
|           | 07/09/96 | 1194.37           | 35.88          | 1158.49               |
|           | 08/15/96 | 1194.37           | 36.01          | 1158.36               |
|           | 09/11/96 | 1194.37           | 34.67          | 1159.7                |
|           | 10/16/96 | 1194.37           | 36.06          | 1158.31               |
|           | 11/29/96 | 1194.37           | 35.42          | 1158.95               |
|           | 12/31/96 | 1194.37           | 34.93          | 1159.44               |
|           | 01/17/97 | 1194.37           | 34.7           | 1159.67               |
|           | 02/20/97 | 1194.37           | 35.16          | 1159.21               |
|           | 03/25/97 | 1194.37           | 35.15          | 1159.22               |
|           | 04/09/97 | 1194.37           | 35.14          | 1159.23               |
|           | 04/09/97 | 1194.37           | 35.14          | 1159.23               |
|           | 06/16/97 | 1194.37           | 35.63          | 1158.74               |
|           | 07/30/97 | 1194.37           | 35.13          | 1159.24               |
|           | 08/27/97 | 1194.37           | 33.58          | 1160.79               |
|           | 09/30/97 | 1194.37           | 32.97          | 1161.4                |
|           | 10/15/97 | 1194.37           | 32.89          | 1161.48               |
|           | 11/26/97 | 1194.37           | 33.2           | 1161.17               |
|           | 12/30/97 | 1194.37           | 31.85          | 1162.52               |
|           | 01/27/98 | 1194.37           | 33.25          | 1161.12               |
|           | 04/16/98 | 1194.37           | 32.49          | 1161.88               |
|           | 07/30/98 | 1194.37           | 39.88          | 1154.49               |
|           | 10/20/98 | 1194.37           | 32.59          | 1161.78               |
|           | 04/08/99 | 1194.37           | 34.74          | 1159.63               |
|           | 07/09/99 | 1194.37           | 35.91          | 1158.46               |
|           | 12/13/99 | 1194.37           | 35.68          | 1158.69               |
|           | 02/14/00 | 1194.37           | 36.05          | 1158.32               |
|           | 04/07/00 | 1194.37           | 35.28          | 1159.09               |
|           | 08/17/00 | 1194.37           | 35.76          | 1158.61               |
|           | 10/13/00 | 1194.37           | 35.44          | 1158.93               |
| DM723     | 01/10/95 | 1202.99           | 21.53          | 1181.46               |
|           | 02/27/95 | 1202.99           | 22.47          | 1180.52               |
|           | 03/14/95 | 1202.99           | 23.6           | 1179.39               |
|           | 04/06/95 | 1202.99           | 22.52          | 1180.47               |
|           | 05/23/95 | 1202.99           | 22.9           | 1180.09               |
|           | 06/09/95 | 1202.99           | 22.98          | 1180.01               |
|           | 07/07/95 | 1202.99           | 23.07          | 1179.92               |
|           | 08/29/95 | 1202.99           | 23.05          | 1179.94               |
|           | 09/14/95 | 1202.99           | 23.09          | 1179.9                |
|           | 10/17/95 | 1202.99           | 23.6           | 1179.39               |
|           | 11/14/95 | 1202.99           | 22.41          | 1180.58               |
|           | 12/21/95 | 1202.99           | 22.47          | 1180.52               |
|           | 01/19/96 | 1202.99           | 23.84          | 1179.15               |
|           | 02/27/96 | 1202.99           | 23.67          | 1179.32               |
|           | 03/19/96 | 1202.99           | 23.74          | 1179.25               |
|           | 04/02/96 | 1202.99           | 23.6           | 1179.39               |
|           | 05/06/96 | 1202.99           | 23.65          | 1179.34               |
|           | 05/30/96 | 1202.99           | 24.55          | 1178.44               |
|           | 06/19/96 | 1202.99           | 23.6           | 1179.39               |
|           | 07/01/96 | 1202.99           | 22.09          | 1180.9                |
|           | 08/08/96 | 1202.99           | 23.8           | 1179.19               |
|           | 09/30/96 | 1202.99           | 23.8           | 1179.19               |
|           | 10/07/96 | 1202.99           | 23.8           | 1179.19               |
|           | 11/02/96 | 1202.99           | 28.24          | 1174.75               |
|           | 11/11/96 | 1202.99           | 23.98          | 1179.01               |
|           | 12/16/96 | 1202.99           | 28.37          | 1174.62               |
|           | 01/10/97 | 1202.99           | 23.85          | 1179.14               |
|           | 02/18/97 | 1202.99           | 23.47          | 1179.52               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM723   | 03/21/97 | 1202.99           | 23.9           | 1179.09               |
|         | 04/02/97 | 1202.99           | 23.35          | 1179.64               |
|         | 05/01/97 | 1202.99           | 23.89          | 1179.1                |
|         | 06/30/97 | 1202.99           | 23.95          | 1179.04               |
|         | 07/28/97 | 1202.99           | 24.67          | 1178.32               |
|         | 08/25/97 | 1202.99           | 24.05          | 1178.94               |
|         | 09/30/97 | 1202.99           | 23.95          | 1179.04               |
|         | 10/16/97 | 1202.99           | 23.85          | 1179.14               |
|         | 10/30/97 | 1202.99           | 23.96          | 1179.03               |
|         | 11/26/97 | 1202.99           | 24.1           | 1178.89               |
|         | 12/30/97 | 1202.99           | 24.25          | 1178.74               |
|         | 01/28/98 | 1202.99           | 24.04          | 1178.95               |
|         | 04/13/98 | 1202.99           | 22.61          | 1180.38               |
|         | 07/28/98 | 1202.99           | 22.4           | 1180.59               |
|         | 10/12/98 | 1202.99           | 22.32          | 1180.67               |
|         | 11/03/98 | 1202.99           | 22.33          | 1180.66               |
|         | 04/09/99 | 1202.99           | 24.52          | 1178.47               |
|         | 07/16/99 | 1202.99           | 25.11          | 1177.88               |
|         | 10/13/99 | 1202.99           | 25.36          | 1177.63               |
|         | 12/16/99 | 1202.99           | 25.89          | 1177.1                |
|         | 02/07/00 | 1202.99           | 26.2           | 1176.79               |
|         | 04/07/00 | 1202.99           | 24.63          | 1178.36               |
|         | 08/15/00 | 1202.99           | 31.52          | 1171.47               |
|         | 10/09/00 | 1202.99           | 25.51          | 1177.48               |
|         | 11/16/00 | 1202.99           | 25.43          | 1177.56               |
| DM724   | 01/10/95 | 1197.21           | 36.1           | 1161.11               |
|         | 02/03/95 | 1197.21           | 33.67          | 1163.54               |
|         | 03/14/95 | 1197.21           | 33.21          | 1164                  |
|         | 04/06/95 | 1197.21           | 38.25          | 1158.96               |
|         | 05/25/95 | 1197.21           | 37.85          | 1159.36               |
|         | 06/09/95 | 1197.21           | 38.53          | 1158.68               |
|         | 07/07/95 | 1197.21           | 38.55          | 1158.66               |
|         | 07/24/95 | 1197.21           | 38.6           | 1158.61               |
|         | 08/17/95 | 1197.21           | 39.25          | 1157.96               |
|         | 09/13/95 | 1197.21           | 38.03          | 1159.18               |
|         | 10/16/95 | 1197.21           | 37.85          | 1159.36               |
|         | 11/15/95 | 1197.21           | 39.43          | 1157.78               |
|         | 12/18/95 | 1197.21           | 42.12          | 1155.09               |
|         | 01/18/96 | 1197.21           | 41.34          | 1155.87               |
|         | 02/27/96 | 1197.21           | 24.61          | 1172.6                |
|         | 03/19/96 | 1197.21           | 54.6           | 1142.61               |
|         | 04/02/96 | 1197.21           | 25.13          | 1172.08               |
|         | 05/09/96 | 1197.21           | 35.7           | 1161.51               |
|         | 05/29/96 | 1197.21           | 50.95          | 1146.26               |
|         | 06/24/96 | 1197.21           | 24.91          | 1172.3                |
|         | 07/01/96 | 1197.21           | 25             | 1172.21               |
|         | 08/07/96 | 1197.21           | 41.42          | 1155.79               |
|         | 09/30/96 | 1197.21           | 32.47          | 1164.74               |
|         | 10/07/96 | 1197.21           | 32.4           | 1164.81               |
|         | 11/11/96 | 1197.21           | 54.31          | 1142.9                |
|         | 12/16/96 | 1197.21           | 54.26          | 1142.95               |
|         | 12/31/96 | 1197.21           | 36             | 1161.21               |
|         | 01/15/97 | 1197.21           | 37.15          | 1160.06               |
|         | 02/18/97 | 1197.21           | 61.6           | 1135.61               |
|         | 03/20/97 | 1197.21           | 38.44          | 1158.77               |
|         | 04/03/97 | 1197.21           | 40.85          | 1156.36               |
|         | 05/07/97 | 1197.21           | 43.83          | 1153.38               |
|         | 05/30/97 | 1197.21           | 35.33          | 1161.88               |
|         | 06/30/97 | 1197.21           | 55.5           | 1141.71               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM724   | 07/28/97 | 1197.21           | 51.15          | 1146.06               |
|         | 08/26/97 | 1197.21           | 43.24          | 1153.97               |
|         | 09/30/97 | 1197.21           | 57.05          | 1140.16               |
|         | 10/16/97 | 1197.21           | 54.3           | 1142.91               |
|         | 11/05/97 | 1197.21           | 55.47          | 1141.74               |
|         | 11/05/97 | 1197.21           | 55.47          | 1141.74               |
|         | 12/30/97 | 1197.21           | 51.55          | 1145.66               |
|         | 01/28/98 | 1197.21           | 48.38          | 1148.83               |
|         | 04/13/98 | 1197.21           | 40.94          | 1156.27               |
|         | 07/30/98 | 1197.21           | 45.28          | 1151.93               |
|         | 10/12/98 | 1197.21           | 38.73          | 1158.48               |
|         | 04/09/99 | 1197.21           | 48.37          | 1148.84               |
|         | 07/16/99 | 1197.21           | 65.57          | 1131.64               |
|         | 10/13/99 | 1197.21           | 51.15          | 1146.06               |
|         | 02/08/00 | 1197.21           | 41.17          | 1156.04               |
|         | 04/07/00 | 1197.21           | 48.31          | 1148.9                |
|         | 08/15/00 | 1197.21           | 40.8           | 1156.41               |
|         | 10/06/00 | 1197.21           | 40.67          | 1156.54               |
|         | 11/01/00 | 1197.21           | 40.77          | 1156.44               |
| DM725   | 01/10/95 | 1195.62           | 24.26          | 1171.36               |
|         | 02/27/95 | 1195.62           | 23             | 1172.62               |
|         | 03/14/95 | 1195.62           | 24.9           | 1170.72               |
|         | 04/06/95 | 1195.62           | 22.61          | 1173.01               |
|         | 05/17/95 | 1195.62           | 22.47          | 1173.15               |
|         | 05/18/95 | 1195.62           | 55.42          | 1140.2                |
|         | 06/09/95 | 1195.62           | 23.01          | 1172.61               |
|         | 07/07/95 | 1195.62           | 23.09          | 1172.53               |
|         | 08/17/95 | 1195.62           | 23.11          | 1172.51               |
|         | 09/14/95 | 1195.62           | 23.11          | 1172.51               |
|         | 10/17/95 | 1195.62           | 23.79          | 1171.83               |
|         | 11/14/95 | 1195.62           | 23.9           | 1171.72               |
|         | 12/21/95 | 1195.62           | 23.93          | 1171.69               |
|         | 01/19/96 | 1195.62           | 27.41          | 1168.21               |
|         | 02/27/96 | 1195.62           | 24.56          | 1171.06               |
|         | 03/19/96 | 1195.62           | 24.7           | 1170.92               |
|         | 04/11/96 | 1195.62           | 24.55          | 1171.07               |
|         | 05/02/96 | 1195.62           | 24.5           | 1171.12               |
|         | 05/30/96 | 1195.62           | 24.96          | 1170.66               |
|         | 06/21/96 | 1195.62           | 24.25          | 1171.37               |
|         | 07/03/96 | 1195.62           | 48.9           | 1146.72               |
|         | 08/08/96 | 1195.62           | 24.83          | 1170.79               |
|         | 09/30/96 | 1195.62           | 24.81          | 1170.81               |
|         | 10/07/96 | 1195.62           | 24.82          | 1170.8                |
|         | 10/31/96 | 1195.62           | 27.3           | 1168.32               |
|         | 11/02/96 | 1195.62           | 27.3           | 1168.32               |
|         | 12/16/96 | 1195.62           | 27.42          | 1168.2                |
|         | 01/10/97 | 1195.62           | 24.85          | 1170.77               |
|         | 02/18/97 | 1195.62           | 25.61          | 1170.01               |
|         | 03/20/97 | 1195.62           | 24.88          | 1170.74               |
|         | 04/02/97 | 1195.62           | 24.22          | 1171.4                |
|         | 04/21/97 | 1195.62           | 23.88          | 1171.74               |
|         | 06/30/97 | 1195.62           | 23.89          | 1171.73               |
|         | 07/28/97 | 1195.62           | 23.85          | 1171.77               |
|         | 08/29/97 | 1195.62           | 23.98          | 1171.64               |
|         | 09/30/97 | 1195.62           | 23.8           | 1171.82               |
|         | 10/16/97 | 1195.62           | 24.58          | 1171.04               |
|         | 10/27/97 | 1195.62           | 23.75          | 1171.87               |
|         | 11/02/97 | 1195.62           | 23.95          | 1171.67               |
|         | 11/03/97 | 1195.62           | 23.95          | 1171.67               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM725   | 12/30/97 | 1195.62           | 24.1           | 1171.52               |
|         | 01/28/98 | 1195.62           | 24.15          | 1171.47               |
|         | 04/13/98 | 1195.62           | 21.66          | 1173.96               |
|         | 07/29/98 | 1195.62           | 22.45          | 1173.17               |
|         | 10/12/98 | 1195.62           | 22.59          | 1173.03               |
|         | 04/08/99 | 1195.62           | 24.81          | 1170.81               |
|         | 07/15/99 | 1195.62           | 25.28          | 1170.34               |
|         | 10/13/99 | 1195.62           | 25.6           | 1170.02               |
|         | 02/09/00 | 1195.62           | 25.76          | 1169.86               |
|         | 04/07/00 | 1195.62           | 25.01          | 1170.61               |
|         | 08/09/00 | 1195.62           | 25             | 1170.62               |
|         | 10/09/00 | 1195.62           | 24.48          | 1171.14               |
| DM726   | 01/10/95 | 1198.62           | 25.8           | 1172.82               |
|         | 02/03/95 | 1198.62           | 25.86          | 1172.76               |
|         | 03/14/95 | 1198.62           | 25.77          | 1172.85               |
|         | 04/06/95 | 1198.62           | 25.89          | 1172.73               |
|         | 05/19/95 | 1198.62           | 25.15          | 1173.47               |
|         | 06/09/95 | 1198.62           | 26.12          | 1172.5                |
|         | 07/07/95 | 1198.62           | 26.15          | 1172.47               |
|         | 08/29/95 | 1198.62           | 26.19          | 1172.43               |
|         | 09/14/95 | 1198.62           | 26.18          | 1172.44               |
|         | 10/17/95 | 1198.62           | 26.48          | 1172.14               |
|         | 11/15/95 | 1198.62           | 25.96          | 1172.66               |
|         | 12/21/95 | 1198.62           | 25.99          | 1172.63               |
|         | 01/19/96 | 1198.62           | 27.54          | 1171.08               |
|         | 02/27/96 | 1198.62           | 27.64          | 1170.98               |
|         | 03/19/96 | 1198.62           | 28.18          | 1170.44               |
|         | 04/02/96 | 1198.62           | 45.27          | 1153.35               |
|         | 05/09/96 | 1198.62           | 28.43          | 1170.19               |
|         | 05/30/96 | 1198.62           | 27.64          | 1170.98               |
|         | 06/19/96 | 1198.62           | 29.28          | 1169.34               |
|         | 07/02/96 | 1198.62           | 43.59          | 1155.03               |
|         | 08/07/96 | 1198.62           | 29.4           | 1169.22               |
|         | 09/30/96 | 1198.62           | 29.35          | 1169.27               |
|         | 10/07/96 | 1198.62           | 29.31          | 1169.31               |
|         | 11/05/96 | 1198.62           | 27.35          | 1171.27               |
|         | 11/11/96 | 1198.62           | 27.6           | 1171.02               |
|         | 12/16/96 | 1198.62           | 33.47          | 1165.15               |
|         | 01/10/97 | 1198.62           | 29.33          | 1169.29               |
|         | 02/18/97 | 1198.62           | 28.52          | 1170.1                |
|         | 03/20/97 | 1198.62           | 29.35          | 1169.27               |
|         | 04/02/97 | 1198.62           | 28.58          | 1170.04               |
|         | 05/06/97 | 1198.62           | 28.05          | 1170.57               |
|         | 06/30/97 | 1198.62           | 28.1           | 1170.52               |
|         | 07/28/97 | 1198.62           | 27.22          | 1171.4                |
|         | 08/26/97 | 1198.62           | 28.19          | 1170.43               |
|         | 09/30/97 | 1198.62           | 27.45          | 1171.17               |
|         | 10/15/97 | 1198.62           | 27.25          | 1171.37               |
|         | 11/04/97 | 1198.62           | 27.47          | 1171.15               |
|         | 11/04/97 | 1198.62           | 27.47          | 1171.15               |
|         | 12/30/97 | 1198.62           | 27.05          | 1171.57               |
|         | 01/28/98 | 1198.62           | 27.56          | 1171.06               |
|         | 04/13/98 | 1198.62           | 25.28          | 1173.34               |
|         | 07/28/98 | 1198.62           | 25.18          | 1173.44               |
|         | 10/12/98 | 1198.62           | 25.19          | 1173.43               |
|         | 11/04/98 | 1198.62           | 25.34          | 1173.28               |
|         | 04/09/99 | 1198.62           | 27.83          | 1170.79               |
|         | 07/16/99 | 1198.62           | 29.5           | 1169.12               |
|         | 10/13/99 | 1198.62           | 28.71          | 1169.91               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM726   | 12/16/99 | 1198.62           | 29.67          | 1168.95               |
|         | 02/07/00 | 1198.62           | 30.42          | 1168.2                |
|         | 04/07/00 | 1198.62           | 27.78          | 1170.84               |
|         | 08/15/00 | 1198.62           | 31.46          | 1167.16               |
|         | 10/06/00 | 1198.62           | 30.76          | 1167.86               |
|         | 10/18/00 | 1198.62           | 30.68          | 1167.94               |
| DM727   | 01/10/95 | 1200.26           | 23.3           | 1176.96               |
|         | 02/27/95 | 1200.26           | 23.74          | 1176.52               |
|         | 03/14/95 | 1200.26           | 24.05          | 1176.21               |
|         | 04/06/95 | 1200.26           | 24             | 1176.26               |
|         | 05/23/95 | 1200.26           | 24.35          | 1175.91               |
|         | 06/09/95 | 1200.26           | 24.08          | 1176.18               |
|         | 07/07/95 | 1200.26           | 25.05          | 1175.21               |
|         | 08/29/95 | 1200.26           | 25.08          | 1175.18               |
|         | 09/14/95 | 1200.26           | 25.05          | 1175.21               |
|         | 10/17/95 | 1200.26           | 25.26          | 1175                  |
|         | 12/21/95 | 1200.26           | 25.35          | 1174.91               |
|         | 01/19/96 | 1200.26           | 25.72          | 1174.54               |
|         | 02/13/96 | 1200.26           | 25.9           | 1174.36               |
|         | 02/26/96 | 1200.26           | 25.94          | 1174.32               |
|         | 03/15/96 | 1200.26           | 28.1           | 1172.16               |
|         | 04/02/96 | 1200.26           | 43.32          | 1156.94               |
|         | 05/10/96 | 1200.26           | 27.5           | 1172.76               |
|         | 05/30/96 | 1200.26           | 25.94          | 1174.32               |
|         | 06/19/96 | 1200.26           | 26.5           | 1173.76               |
|         | 07/02/96 | 1200.26           | 34.2           | 1166.06               |
|         | 07/16/96 | 1200.26           | 26.7           | 1173.56               |
|         | 08/14/96 | 1200.26           | 43.39          | 1156.87               |
|         | 09/30/96 | 1200.26           | 43.36          | 1156.9                |
|         | 10/09/96 | 1200.26           | 43.36          | 1156.9                |
|         | 10/31/96 | 1200.26           | 25.9           | 1174.36               |
|         | 11/02/96 | 1200.26           | 25.9           | 1174.36               |
|         | 12/13/96 | 1200.26           | 25.9           | 1174.36               |
|         | 12/31/96 | 1200.26           | 27.48          | 1172.78               |
|         | 01/10/97 | 1200.26           | 43.38          | 1156.88               |
|         | 02/18/97 | 1200.26           | 43.45          | 1156.81               |
|         | 03/21/97 | 1200.26           | 26.63          | 1173.63               |
|         | 04/02/97 | 1200.26           | 26.7           | 1173.56               |
|         | 04/18/97 | 1200.26           | 26.99          | 1173.27               |
|         | 06/30/97 | 1200.26           | 27.4           | 1172.86               |
|         | 07/29/97 | 1200.26           | 27.5           | 1172.76               |
|         | 08/07/97 | 1200.26           | 27.37          | 1172.89               |
|         | 08/25/97 | 1200.26           | 26.23          | 1174.03               |
|         | 09/30/97 | 1200.26           | 25.7           | 1174.56               |
|         | 10/15/97 | 1200.26           | 25.61          | 1174.65               |
|         | 10/24/97 | 1200.26           | 25.45          | 1174.81               |
|         | 11/26/97 | 1200.26           | 25.25          | 1175.01               |
|         | 12/30/97 | 1200.26           | 23.95          | 1176.31               |
|         | 01/27/98 | 1200.26           | 22.29          | 1177.97               |
|         | 04/13/98 | 1200.26           | 21.91          | 1178.35               |
|         | 07/28/98 | 1200.26           | 24.42          | 1175.84               |
|         | 10/12/98 | 1200.26           | 24.96          | 1175.3                |
|         | 04/09/99 | 1200.26           | 24.19          | 1176.07               |
|         | 07/16/99 | 1200.26           | 27.28          | 1172.98               |
|         | 10/13/99 | 1200.26           | 27.48          | 1172.78               |
|         | 02/07/00 | 1200.26           | 24.1           | 1176.16               |
|         | 04/07/00 | 1200.26           | 24.3           | 1175.96               |
|         | 08/15/00 | 1200.26           | 25.88          | 1174.38               |
|         | 10/06/00 | 1200.26           | 24.62          | 1175.64               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM728   | 01/09/95 | 1202.13           | 31.53          | 1170.6                |
|         | 01/10/95 | 1202.13           | 31             | 1171.13               |
|         | 02/03/95 | 1202.13           | 30.85          | 1171.28               |
|         | 03/14/95 | 1202.13           | 24.15          | 1177.98               |
|         | 04/06/95 | 1202.13           | 31.22          | 1170.91               |
|         | 05/23/95 | 1202.13           | 31.82          | 1170.31               |
|         | 06/09/95 | 1202.13           | 31.22          | 1170.91               |
|         | 07/07/95 | 1202.13           | 32.35          | 1169.78               |
|         | 08/29/95 | 1202.13           | 32.34          | 1169.79               |
|         | 09/14/95 | 1202.13           | 32.43          | 1169.7                |
|         | 10/17/95 | 1202.13           | 31.94          | 1170.19               |
|         | 11/15/95 | 1202.13           | 31.82          | 1170.31               |
|         | 12/21/95 | 1202.13           | 31.85          | 1170.28               |
|         | 01/19/96 | 1202.13           | 32.48          | 1169.65               |
|         | 02/26/96 | 1202.13           | 32.58          | 1169.55               |
|         | 03/19/96 | 1202.13           | 32.65          | 1169.48               |
|         | 04/02/96 | 1202.13           | 32.62          | 1169.51               |
|         | 05/24/96 | 1202.13           | 32.75          | 1169.38               |
|         | 05/30/96 | 1202.13           | 32.58          | 1169.55               |
|         | 06/24/96 | 1202.13           | 31.75          | 1170.38               |
|         | 07/02/96 | 1202.13           | 29.33          | 1172.8                |
|         | 08/14/96 | 1202.13           | 32.72          | 1169.41               |
|         | 09/30/96 | 1202.13           | 32.7           | 1169.43               |
|         | 10/09/96 | 1202.13           | 32.71          | 1169.42               |
|         | 10/31/96 | 1202.13           | 33.3           | 1168.83               |
|         | 11/02/96 | 1202.13           | 33.3           | 1168.83               |
|         | 12/31/96 | 1202.13           | 33.36          | 1168.77               |
|         | 01/10/97 | 1202.13           | 32.73          | 1169.4                |
|         | 02/18/97 | 1202.13           | 33             | 1169.13               |
|         | 03/21/97 | 1202.13           | 33.38          | 1168.75               |
|         | 04/02/97 | 1202.13           | 33.46          | 1168.67               |
|         | 04/23/97 | 1202.13           | 33.51          | 1168.62               |
|         | 06/30/97 | 1202.13           | 33.92          | 1168.21               |
|         | 07/28/97 | 1202.13           | 34.15          | 1167.98               |
|         | 08/25/97 | 1202.13           | 33.61          | 1168.52               |
|         | 09/30/97 | 1202.13           | 33.1           | 1169.03               |
|         | 10/15/97 | 1202.13           | 33.02          | 1169.11               |
|         | 10/29/97 | 1202.13           | 33.1           | 1169.03               |
|         | 11/14/97 | 1202.13           | 32.94          | 1169.19               |
|         | 12/30/97 | 1202.13           | 32.7           | 1169.43               |
|         | 01/27/98 | 1202.13           | 31.8           | 1170.33               |
|         | 04/13/98 | 1202.13           | 30.75          | 1171.38               |
|         | 07/28/98 | 1202.13           | 31.83          | 1170.3                |
|         | 10/12/98 | 1202.13           | 32.03          | 1170.1                |
|         | 11/03/98 | 1202.13           | 32.11          | 1170.02               |
|         | 04/09/99 | 1202.13           | 31.99          | 1170.14               |
|         | 07/16/99 | 1202.13           | 34.1           | 1168.03               |
|         | 10/13/99 | 1202.13           | 33.58          | 1168.55               |
|         | 12/14/99 | 1202.13           | 34.37          | 1167.76               |
|         | 02/07/00 | 1202.13           | 32.89          | 1169.24               |
|         | 04/07/00 | 1202.13           | 32.08          | 1170.05               |
|         | 08/15/00 | 1202.13           | 33.79          | 1168.34               |
|         | 10/06/00 | 1202.13           | 33             | 1169.13               |
|         | 10/18/00 | 1202.13           | 32.88          | 1169.25               |
| DM728   | 01/12/95 | 1197.32           | 30.53          | 1166.79               |
|         | 03/15/95 | 1197.32           | 34.21          | 1163.11               |
|         | 04/05/95 | 1197.32           | 35.19          | 1162.13               |
|         | 05/05/95 | 1197.32           | 35.62          | 1161.7                |
|         | 06/22/95 | 1197.32           | 36.41          | 1160.91               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM729-050 | 07/20/95 | 1197.32           | 36.39          | 1160.93               |
|           | 08/30/95 | 1197.32           | 36.41          | 1160.91               |
|           | 10/23/95 | 1197.32           | 37.38          | 1159.94               |
|           | 11/30/95 | 1197.32           | 34.49          | 1162.83               |
|           | 01/24/96 | 1197.32           | 38.79          | 1158.53               |
|           | 02/28/96 | 1197.32           | 36.52          | 1160.8                |
|           | 03/28/96 | 1197.32           | 38.17          | 1159.15               |
|           | 04/03/96 | 1197.32           | 36.64          | 1160.68               |
|           | 04/19/96 | 1197.32           | 34.93          | 1162.39               |
|           | 05/17/96 | 1197.32           | 38.25          | 1159.07               |
|           | 06/25/96 | 1197.32           | 37.9           | 1159.42               |
|           | 07/09/96 | 1197.32           | 37.9           | 1159.42               |
|           | 08/15/96 | 1197.32           | 37.36          | 1159.46               |
|           | 10/02/96 | 1197.32           | 37.97          | 1159.35               |
|           | 10/16/96 | 1197.32           | 38.01          | 1159.31               |
|           | 11/20/96 | 1197.32           | 39.01          | 1158.31               |
|           | 12/30/96 | 1197.32           | 39.13          | 1158.19               |
|           | 01/15/97 | 1197.32           | 39.04          | 1158.28               |
|           | 02/19/97 | 1197.32           | 38.18          | 1159.14               |
|           | 03/25/97 | 1197.32           | 38.21          | 1159.11               |
|           | 04/09/97 | 1197.32           | 38.31          | 1159.01               |
|           | 04/09/97 | 1197.32           | 38.31          | 1159.01               |
|           | 06/10/97 | 1197.32           | 38.77          | 1158.55               |
|           | 07/30/97 | 1197.32           | 41.95          | 1155.37               |
|           | 08/27/97 | 1197.32           | 37.76          | 1159.56               |
|           | 09/30/97 | 1197.32           | 37.43          | 1159.89               |
|           | 10/15/97 | 1197.32           | 37.71          | 1159.61               |
|           | 11/19/97 | 1197.32           | 38.05          | 1159.27               |
|           | 12/30/97 | 1197.32           | 37.78          | 1159.54               |
|           | 01/27/98 | 1197.32           | 38.14          | 1159.18               |
|           | 04/17/98 | 1197.32           | 35.62          | 1161.7                |
|           | 08/06/98 | 1197.32           | 36.92          | 1160.4                |
|           | 10/19/98 | 1197.32           | 37.27          | 1160.05               |
|           | 04/09/99 | 1197.32           | 37.99          | 1159.33               |
|           | 07/09/99 | 1197.32           | 39.27          | 1158.05               |
|           | 11/09/99 | 1197.32           | 40.05          | 1157.27               |
|           | 02/16/00 | 1197.32           | 39.35          | 1157.97               |
|           | 04/28/00 | 1197.32           | 38.58          | 1158.74               |
|           | 08/17/00 | 1197.32           | 39.34          | 1157.98               |
|           | 11/14/00 | 1197.32           | 36.24          | 1161.08               |
| DM729-110 | 01/15/97 | 1197.32           | 38.14          | 1159.18               |
|           | 02/19/97 | 1197.32           | 37.28          | 1160.04               |
|           | 03/25/97 | 1197.32           | 37.39          | 1159.93               |
|           | 04/09/97 | 1197.32           | 37.43          | 1159.89               |
|           | 04/09/97 | 1197.32           | 37.43          | 1159.89               |
|           | 06/10/97 | 1197.32           | 37.89          | 1159.43               |
|           | 07/30/97 | 1197.32           | 41.06          | 1156.26               |
|           | 08/27/97 | 1197.32           | 36.8           | 1160.52               |
|           | 09/30/97 | 1197.32           | 36.54          | 1160.78               |
|           | 10/15/97 | 1197.32           | 36.84          | 1160.48               |
|           | 11/19/97 | 1197.32           | 37.16          | 1160.16               |
|           | 12/30/97 | 1197.32           | 36.7           | 1160.62               |
|           | 01/27/98 | 1197.32           | 37.33          | 1159.99               |
|           | 04/17/98 | 1197.32           | 34.98          | 1162.34               |
|           | 08/06/98 | 1197.32           | 35.93          | 1161.39               |
|           | 10/19/98 | 1197.32           | 36.26          | 1161.06               |
|           | 04/09/99 | 1197.32           | 36.9           | 1160.42               |
|           | 07/09/99 | 1197.32           | 38.34          | 1158.98               |
|           | 11/09/99 | 1197.32           | 19.14          | 1178.18               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM729-110 | 02/16/00 | 1197.32           | 38.61          | 1158.71               |
|           | 04/28/00 | 1197.32           | 37.98          | 1159.34               |
|           | 08/17/00 | 1197.32           | 38.61          | 1158.71               |
|           | 11/14/00 | 1197.32           | 35.8           | 1161.52               |
| DM729-145 | 01/12/95 | 1197.32           | 31.47          | 1165.85               |
|           | 03/15/95 | 1197.32           | 33.24          | 1164.08               |
|           | 04/05/95 | 1197.32           | 34.11          | 1163.21               |
|           | 05/05/95 | 1197.32           | 34.44          | 1162.88               |
|           | 06/22/95 | 1197.32           | 35.43          | 1161.89               |
|           | 07/20/95 | 1197.32           | 35.44          | 1161.88               |
|           | 08/30/95 | 1197.32           | 35.51          | 1161.81               |
|           | 10/23/95 | 1197.32           | 34.72          | 1162.6                |
|           | 11/30/95 | 1197.32           | 33.76          | 1163.56               |
|           | 01/24/96 | 1197.32           | 35.12          | 1162.2                |
|           | 04/03/96 | 1197.32           | 35.62          | 1161.7                |
|           | 04/19/96 | 1197.32           | 34.03          | 1163.29               |
|           | 05/17/96 | 1197.32           | 37.23          | 1160.09               |
|           | 06/25/96 | 1197.32           | 36.87          | 1160.45               |
|           | 07/09/96 | 1197.32           | 36.84          | 1160.48               |
|           | 08/15/96 | 1197.32           | 36.87          | 1160.45               |
|           | 10/02/96 | 1197.32           | 36.8           | 1160.52               |
|           | 10/16/96 | 1197.32           | 36.85          | 1160.47               |
|           | 11/20/96 | 1197.32           | 37.93          | 1159.39               |
|           | 12/30/96 | 1197.32           | 38.11          | 1159.21               |
|           | 01/15/97 | 1197.32           | 37.97          | 1159.35               |
|           | 02/19/97 | 1197.32           | 37.11          | 1160.21               |
|           | 03/25/97 | 1197.32           | 37.23          | 1160.09               |
|           | 04/09/97 | 1197.32           | 37.24          | 1160.08               |
|           | 04/09/97 | 1197.32           | 37.25          | 1160.07               |
|           | 06/10/97 | 1197.32           | 37.67          | 1159.65               |
|           | 07/30/97 | 1197.32           | 40.75          | 1156.57               |
|           | 08/27/97 | 1197.32           | 36.61          | 1160.71               |
|           | 09/30/97 | 1197.32           | 36.4           | 1160.92               |
|           | 10/15/97 | 1197.32           | 36.67          | 1160.65               |
|           | 11/19/97 | 1197.32           | 36.98          | 1160.34               |
|           | 12/30/97 | 1197.32           | 36.52          | 1160.8                |
|           | 01/27/98 | 1197.32           | 37.15          | 1160.17               |
|           | 04/17/98 | 1197.32           | 34.84          | 1162.48               |
|           | 08/06/98 | 1197.32           | 35.74          | 1161.58               |
|           | 10/19/98 | 1197.32           | 36.1           | 1161.22               |
|           | 04/09/99 | 1197.32           | 36.7           | 1160.62               |
|           | 07/09/99 | 1197.32           | 38.16          | 1159.16               |
|           | 11/09/99 | 1197.32           | 37.26          | 1160.06               |
|           | 02/16/00 | 1197.32           | 38.48          | 1158.84               |
|           | 04/28/00 | 1197.32           | 37.86          | 1159.46               |
|           | 08/17/00 | 1197.32           | 38.49          | 1158.83               |
|           | 11/14/00 | 1197.32           | 35.56          | 1161.76               |
| DM729-170 | 01/15/97 | 1197.32           | 37.91          | 1159.41               |
|           | 02/19/97 | 1197.32           | 37.12          | 1160.2                |
|           | 03/25/97 | 1197.32           | 37.2           | 1160.12               |
|           | 04/09/97 | 1197.32           | 37.22          | 1160.1                |
|           | 04/09/97 | 1197.32           | 37.22          | 1160.1                |
|           | 06/10/97 | 1197.32           | 37.64          | 1159.68               |
|           | 07/30/97 | 1197.32           | 40.73          | 1156.59               |
|           | 08/27/97 | 1197.32           | 36.58          | 1160.74               |
|           | 09/30/97 | 1197.32           | 36.34          | 1160.98               |
|           | 10/15/97 | 1197.32           | 36.59          | 1160.73               |
|           | 11/19/97 | 1197.32           | 36.89          | 1160.43               |
|           | 12/30/97 | 1197.32           | 36.41          | 1160.91               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM729-170 | 01/27/98 | 1197.32           | 37.09          | 1160.23               |
|           | 04/17/98 | 1197.32           | 34.82          | 1162.5                |
|           | 08/06/98 | 1197.32           | 35.66          | 1161.66               |
|           | 10/19/98 | 1197.32           | 36.03          | 1161.29               |
|           | 04/09/99 | 1197.32           | 36.65          | 1160.67               |
|           | 07/09/99 | 1197.32           | 38.13          | 1159.19               |
|           | 11/09/99 | 1197.32           | 36.89          | 1160.43               |
|           | 02/16/00 | 1197.32           | 38.42          | 1158.9                |
|           | 04/28/00 | 1197.32           | 37.81          | 1159.51               |
|           | 08/17/00 | 1197.32           | 38.46          | 1158.86               |
|           | 11/14/00 | 1197.32           | 35.58          | 1161.74               |
| DM729-195 | 01/12/95 | 1197.32           | 31.48          | 1165.84               |
|           | 03/15/95 | 1197.32           | 33.18          | 1164.14               |
|           | 04/05/95 | 1197.32           | 34.12          | 1163.2                |
|           | 05/05/95 | 1197.32           | 35.09          | 1162.23               |
|           | 06/22/95 | 1197.32           | 35.3           | 1162.02               |
|           | 07/20/95 | 1197.32           | 35.34          | 1161.98               |
|           | 08/30/95 | 1197.32           | 35.34          | 1161.98               |
|           | 10/23/95 | 1197.32           | 34.46          | 1162.86               |
|           | 11/30/95 | 1197.32           | 33.76          | 1163.56               |
|           | 01/24/96 | 1197.32           | 35.05          | 1162.27               |
|           | 02/28/96 | 1197.32           | 35.22          | 1162.1                |
|           | 03/28/96 | 1197.32           | 35.25          | 1162.07               |
|           | 04/03/96 | 1197.32           | 35.52          | 1161.8                |
|           | 04/19/96 | 1197.32           | 34.13          | 1163.19               |
|           | 05/17/96 | 1197.32           | 37.26          | 1160.06               |
|           | 06/25/96 | 1197.32           | 36.86          | 1160.46               |
|           | 07/09/96 | 1197.32           | 36.9           | 1160.42               |
|           | 08/15/96 | 1197.32           | 36.93          | 1160.39               |
|           | 10/02/96 | 1197.32           | 36.76          | 1160.56               |
|           | 10/16/96 | 1197.32           | 36.89          | 1160.43               |
|           | 11/20/96 | 1197.32           | 37.87          | 1159.45               |
|           | 12/30/96 | 1197.32           | 38.01          | 1159.31               |
|           | 01/15/97 | 1197.32           | 37.89          | 1159.43               |
|           | 02/19/97 | 1197.32           | 37.09          | 1160.23               |
|           | 03/25/97 | 1197.32           | 37.15          | 1160.17               |
|           | 04/09/97 | 1197.32           | 37.17          | 1160.15               |
|           | 04/09/97 | 1197.32           | 37.17          | 1160.15               |
|           | 06/10/97 | 1197.32           | 37.65          | 1159.67               |
|           | 07/30/97 | 1197.32           | 40.69          | 1156.63               |
|           | 08/27/97 | 1197.32           | 36.59          | 1160.73               |
|           | 09/30/97 | 1197.32           | 36.34          | 1160.98               |
|           | 10/15/97 | 1197.32           | 36.59          | 1160.73               |
|           | 11/19/97 | 1197.32           | 36.94          | 1160.38               |
|           | 12/30/97 | 1197.32           | 36.42          | 1160.9                |
|           | 01/27/98 | 1197.32           | 37.12          | 1160.2                |
|           | 04/17/98 | 1197.32           | 34.78          | 1162.54               |
|           | 08/06/98 | 1197.32           | 35.67          | 1161.65               |
|           | 10/19/98 | 1197.32           | 36.04          | 1161.28               |
|           | 04/09/99 | 1197.32           | 36.64          | 1160.68               |
|           | 07/09/99 | 1197.32           | 38.12          | 1159.2                |
|           | 02/16/00 | 1197.32           | 38.41          | 1158.91               |
|           | 04/28/00 | 1197.32           | 37.85          | 1159.47               |
|           | 08/17/00 | 1197.32           | 38.45          | 1158.87               |
|           | 11/14/00 | 1197.32           | 35.55          | 1161.77               |
| DM729-230 | 08/15/96 | 1197.32           | 36.9           | 1160.42               |
|           | 01/15/97 | 1197.32           | 37.73          | 1159.59               |
|           | 02/19/97 | 1197.32           | 37.07          | 1160.25               |
|           | 03/25/97 | 1197.32           | 37.13          | 1160.19               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM729-230 | 04/09/97 | 1197.32           | 37.18          | 1160.14               |
|           | 04/09/97 | 1197.32           | 37.19          | 1160.13               |
|           | 06/10/97 | 1197.32           | 37.53          | 1159.79               |
|           | 07/30/97 | 1197.32           | 40.57          | 1156.75               |
|           | 08/27/97 | 1197.32           | 36.47          | 1160.85               |
|           | 09/30/97 | 1197.32           | 36.2           | 1161.12               |
|           | 10/15/97 | 1197.32           | 36.41          | 1160.91               |
|           | 11/19/97 | 1197.32           | 36.72          | 1160.6                |
|           | 12/30/97 | 1197.32           | 36.27          | 1161.05               |
|           | 01/27/98 | 1197.32           | 36.98          | 1160.34               |
|           | 04/17/98 | 1197.32           | 34.77          | 1162.55               |
|           | 08/06/98 | 1197.32           | 35.55          | 1161.77               |
|           | 10/19/98 | 1197.32           | 35.89          | 1161.43               |
|           | 04/09/99 | 1197.32           | 36.61          | 1160.71               |
|           | 07/09/99 | 1197.32           | 38.02          | 1159.3                |
|           | 02/16/00 | 1197.32           | 38.25          | 1159.07               |
|           | 04/28/00 | 1197.32           | 37.77          | 1159.55               |
|           | 08/17/00 | 1197.32           | 38.36          | 1158.96               |
|           | 11/14/00 | 1197.32           | 35.61          | 1161.71               |
| DM729-255 | 01/12/95 | 1197.32           | 31.64          | 1165.68               |
|           | 03/15/95 | 1197.32           | 33.31          | 1164.01               |
|           | 04/05/95 | 1197.32           | 34.05          | 1163.27               |
|           | 05/05/95 | 1197.32           | 34.4           | 1162.92               |
|           | 06/22/95 | 1197.32           | 35.33          | 1161.99               |
|           | 07/20/95 | 1197.32           | 35.39          | 1161.93               |
|           | 08/30/95 | 1197.32           | 35.43          | 1161.89               |
|           | 10/23/95 | 1197.32           | 34.6           | 1162.72               |
|           | 11/30/95 | 1197.32           | 33.77          | 1163.55               |
|           | 01/24/96 | 1197.32           | 35.03          | 1162.29               |
|           | 02/28/96 | 1197.32           | 35.17          | 1162.15               |
|           | 03/28/96 | 1197.32           | 35.13          | 1162.19               |
|           | 04/03/96 | 1197.32           | 35.49          | 1161.83               |
|           | 04/19/96 | 1197.32           | 34.01          | 1163.31               |
|           | 05/17/96 | 1197.32           | 37.21          | 1160.11               |
|           | 06/25/96 | 1197.32           | 36.83          | 1160.49               |
|           | 07/09/96 | 1197.32           | 36.85          | 1160.47               |
|           | 10/02/96 | 1197.32           | 36.71          | 1160.61               |
|           | 10/16/96 | 1197.32           | 36.87          | 1160.45               |
|           | 11/20/96 | 1197.32           | 37.7           | 1159.62               |
|           | 12/30/96 | 1197.32           | 37.81          | 1159.51               |
|           | 01/15/97 | 1197.32           | 37.75          | 1159.57               |
|           | 02/19/97 | 1197.32           | 36.99          | 1160.33               |
|           | 03/25/97 | 1197.32           | 37.06          | 1160.26               |
|           | 04/09/97 | 1197.32           | 37.13          | 1160.19               |
|           | 04/09/97 | 1197.32           | 37.13          | 1160.19               |
|           | 06/10/97 | 1197.32           | 37.59          | 1159.73               |
|           | 07/30/97 | 1197.32           | 40.61          | 1156.71               |
|           | 08/27/97 | 1197.32           | 36.48          | 1160.84               |
|           | 09/30/97 | 1197.32           | 36.23          | 1161.09               |
|           | 10/15/97 | 1197.32           | 36.46          | 1160.86               |
|           | 11/19/97 | 1197.32           | 36.73          | 1160.59               |
|           | 12/30/97 | 1197.32           | 36.23          | 1161.09               |
|           | 01/27/98 | 1197.32           | 37.01          | 1160.31               |
|           | 04/17/98 | 1197.32           | 34.77          | 1162.55               |
|           | 08/06/98 | 1197.32           | 35.59          | 1161.73               |
|           | 10/19/98 | 1197.32           | 35.93          | 1161.39               |
|           | 04/09/99 | 1197.32           | 36.68          | 1160.64               |
|           | 07/09/99 | 1197.32           | 38.07          | 1159.25               |
|           | 02/16/00 | 1197.32           | 38.32          | 1159                  |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM729-255 | 04/28/00 | 1197.32           | 37.79          | 1159.53               |
|           | 08/17/00 | 1197.32           | 38.38          | 1158.94               |
|           | 11/14/00 | 1197.32           | 35.68          | 1161.64               |
| DM729-270 | 01/15/97 | 1197.32           | 37.71          | 1159.61               |
|           | 02/19/97 | 1197.32           | 36.97          | 1160.35               |
|           | 03/25/97 | 1197.32           | 36.99          | 1160.33               |
|           | 04/09/97 | 1197.32           | 37.14          | 1160.18               |
|           | 04/09/97 | 1197.32           | 37.15          | 1160.17               |
|           | 06/10/97 | 1197.32           | 37.47          | 1159.85               |
|           | 07/30/97 | 1197.32           | 40.5           | 1156.82               |
|           | 08/27/97 | 1197.32           | 36.41          | 1160.91               |
|           | 09/30/97 | 1197.32           | 36.12          | 1161.2                |
|           | 10/15/97 | 1197.32           | 36.31          | 1161.01               |
|           | 11/19/97 | 1197.32           | 36.62          | 1160.7                |
|           | 12/30/97 | 1197.32           | 36.1           | 1161.22               |
|           | 01/27/98 | 1197.32           | 36.91          | 1160.41               |
|           | 04/17/98 | 1197.32           | 34.72          | 1162.6                |
|           | 08/06/98 | 1197.32           | 35.48          | 1161.84               |
|           | 10/19/98 | 1197.32           | 35.82          | 1161.5                |
|           | 04/09/99 | 1197.32           | 36.59          | 1160.73               |
|           | 07/09/99 | 1197.32           | 38.01          | 1159.31               |
|           | 02/16/00 | 1197.32           | 38.31          | 1159.01               |
|           | 04/28/00 | 1197.32           | 37.73          | 1159.59               |
|           | 08/17/00 | 1197.32           | 38.34          | 1158.98               |
|           | 11/14/00 | 1197.32           | 35.66          | 1161.66               |
| DM729-285 | 01/12/95 | 1197.32           | 31.51          | 1165.81               |
|           | 03/15/95 | 1197.32           | 31.44          | 1165.88               |
|           | 04/05/95 | 1197.32           | 33.94          | 1163.38               |
|           | 05/05/95 | 1197.32           | 33.26          | 1164.06               |
|           | 06/22/95 | 1197.32           | 35.24          | 1162.08               |
|           | 07/20/95 | 1197.32           | 35.27          | 1162.05               |
|           | 08/30/95 | 1197.32           | 35.3           | 1162.02               |
|           | 10/23/95 | 1197.32           | 34.71          | 1162.61               |
|           | 11/30/95 | 1197.32           | 33.69          | 1163.63               |
|           | 01/24/96 | 1197.32           | 35.05          | 1162.27               |
|           | 02/28/96 | 1197.32           | 34.97          | 1162.35               |
|           | 03/28/96 | 1197.32           | 34.81          | 1162.51               |
|           | 04/03/96 | 1197.32           | 35.37          | 1161.95               |
|           | 04/19/96 | 1197.32           | 33.74          | 1163.58               |
|           | 05/17/96 | 1197.32           | 37.06          | 1160.26               |
|           | 06/25/96 | 1197.32           | 36.76          | 1160.56               |
|           | 07/09/96 | 1197.32           | 36.82          | 1160.5                |
|           | 08/15/96 | 1197.32           | 36.78          | 1160.54               |
|           | 10/02/96 | 1197.32           | 36.75          | 1160.57               |
|           | 10/16/96 | 1197.32           | 36.79          | 1160.53               |
|           | 11/20/96 | 1197.32           | 37.65          | 1159.67               |
|           | 12/30/96 | 1197.32           | 36.13          | 1161.19               |
|           | 01/15/97 | 1197.32           | 37.66          | 1159.66               |
|           | 02/19/97 | 1197.32           | 36.82          | 1160.5                |
|           | 03/25/97 | 1197.32           | 36.82          | 1160.5                |
|           | 04/09/97 | 1197.32           | 36.99          | 1160.33               |
|           | 04/09/97 | 1197.32           | 37             | 1160.32               |
|           | 06/10/97 | 1197.32           | 37.36          | 1159.96               |
|           | 07/30/97 | 1197.32           | 40.39          | 1156.93               |
|           | 08/27/97 | 1197.32           | 36.35          | 1160.97               |
|           | 09/30/97 | 1197.32           | 36.04          | 1161.28               |
|           | 10/15/97 | 1197.32           | 36.23          | 1161.09               |
|           | 11/19/97 | 1197.32           | 36.49          | 1160.83               |
|           | 12/30/97 | 1197.32           | 36.08          | 1161.24               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM729-285 | 01/27/98 | 1197.32           | 36.89          | 1160.43               |
|           | 04/17/98 | 1197.32           | 34.62          | 1162.7                |
|           | 08/06/98 | 1197.32           | 35.41          | 1161.91               |
|           | 10/19/98 | 1197.32           | 35.84          | 1161.48               |
|           | 04/09/99 | 1197.32           | 36.52          | 1160.8                |
|           | 07/09/99 | 1197.32           | 37.97          | 1159.35               |
|           | 02/16/00 | 1197.32           | 38.36          | 1158.96               |
|           | 04/28/00 | 1197.32           | 37.68          | 1159.64               |
|           | 08/17/00 | 1197.32           | 38.23          | 1159.09               |
|           | 11/14/00 | 1197.32           | 35.59          | 1161.73               |
| DM730     | 01/09/95 | 1192.46           | 33.86          | 1158.6                |
|           | 01/10/95 | 1192.46           | 33.86          | 1158.6                |
|           | 02/27/95 | 1192.46           | 34.26          | 1158.2                |
|           | 03/14/95 | 1192.46           | 33.92          | 1158.54               |
|           | 04/06/95 | 1192.46           | 34.6           | 1157.86               |
|           | 05/17/95 | 1192.46           | 35.37          | 1157.09               |
|           | 06/09/95 | 1192.46           | 35.6           | 1156.86               |
|           | 07/07/95 | 1192.46           | 35.62          | 1156.84               |
|           | 08/17/95 | 1192.46           | 35.63          | 1156.83               |
|           | 09/14/95 | 1192.46           | 35.65          | 1156.81               |
|           | 10/17/95 | 1192.46           | 34.02          | 1158.44               |
|           | 11/14/95 | 1192.46           | 33.87          | 1158.59               |
|           | 12/21/95 | 1192.46           | 33.9           | 1158.56               |
|           | 01/19/96 | 1192.46           | 35.52          | 1156.94               |
|           | 02/26/96 | 1192.46           | 35.67          | 1156.79               |
|           | 03/15/96 | 1192.46           | 35.85          | 1156.61               |
|           | 04/04/96 | 1192.46           | 35.73          | 1156.73               |
|           | 05/30/96 | 1192.46           | 36.81          | 1155.65               |
|           | 05/31/96 | 1192.46           | 37.82          | 1154.64               |
|           | 06/18/96 | 1192.46           | 35.83          | 1156.63               |
|           | 07/02/96 | 1192.46           | 36.91          | 1155.55               |
|           | 07/16/96 | 1192.46           | 37.28          | 1155.18               |
|           | 08/14/96 | 1192.46           | 35.76          | 1156.7                |
|           | 09/27/96 | 1192.46           | 35.75          | 1156.71               |
|           | 10/09/96 | 1192.46           | 35.75          | 1156.71               |
|           | 10/28/96 | 1192.46           | 37.38          | 1155.08               |
|           | 11/02/96 | 1192.46           | 37.38          | 1155.08               |
|           | 12/31/96 | 1192.46           | 37.38          | 1155.08               |
|           | 01/10/97 | 1192.46           | 35.78          | 1156.68               |
|           | 01/23/97 | 1192.46           | 37.65          | 1154.81               |
|           | 02/18/97 | 1192.46           | 37.55          | 1154.91               |
|           | 03/20/97 | 1192.46           | 35.79          | 1156.67               |
|           | 04/02/97 | 1192.46           | 37.67          | 1154.79               |
|           | 04/18/97 | 1192.46           | 37.71          | 1154.75               |
|           | 06/30/97 | 1192.46           | 38.05          | 1154.41               |
|           | 07/29/97 | 1192.46           | 36.97          | 1155.49               |
|           | 08/07/97 | 1192.46           | 36.2           | 1156.26               |
|           | 08/26/97 | 1192.46           | 35.94          | 1156.52               |
|           | 09/30/97 | 1192.46           | 35.02          | 1157.44               |
|           | 10/16/97 | 1192.46           | 34.91          | 1157.55               |
|           | 10/24/97 | 1192.46           | 34.85          | 1157.61               |
|           | 11/19/97 | 1192.46           | 35.15          | 1157.31               |
|           | 12/30/97 | 1192.46           | 34.7           | 1157.76               |
|           | 01/26/98 | 1192.46           | 34.98          | 1157.48               |
|           | 04/07/98 | 1192.46           | 34.73          | 1157.73               |
|           | 04/29/98 | 1192.46           | 34.93          | 1157.53               |
|           | 07/28/98 | 1192.46           | 36.39          | 1156.07               |
|           | 10/12/98 | 1192.46           | 36.17          | 1156.29               |
|           | 11/11/98 | 1192.46           | 36.37          | 1156.09               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM730   | 04/09/99 | 1192.46           | 37.62          | 1154.84               |
|         | 04/27/99 | 1192.46           | 58.03          | 1134.43               |
|         | 07/15/99 | 1192.46           | 38.41          | 1154.05               |
|         | 10/12/99 | 1192.46           | 37.1           | 1155.36               |
|         | 12/14/99 | 1192.46           | 38.08          | 1154.38               |
|         | 02/08/00 | 1192.46           | 38.58          | 1153.88               |
|         | 04/05/00 | 1192.46           | 37.91          | 1154.55               |
|         | 04/14/00 | 1192.46           | 37.89          | 1154.57               |
|         | 07/15/00 | 1192.46           | 38.81          | 1153.65               |
|         | 10/07/00 | 1192.46           | 38.67          | 1153.79               |
|         | 10/19/00 | 1192.46           | 38.67          | 1153.79               |
| DM731   | 01/09/95 | 1194.2            | 33.18          | 1161.02               |
|         | 02/27/95 | 1194.2            | 34.15          | 1160.05               |
|         | 03/14/95 | 1194.2            | 34.52          | 1159.68               |
|         | 04/06/95 | 1194.2            | 34.51          | 1159.69               |
|         | 05/17/95 | 1194.2            | 35.24          | 1158.96               |
|         | 06/09/95 | 1194.2            | 35.47          | 1158.73               |
|         | 07/07/95 | 1194.2            | 35.49          | 1158.71               |
|         | 08/17/95 | 1194.2            | 35.51          | 1158.69               |
|         | 09/14/95 | 1194.2            | 35.51          | 1158.69               |
|         | 10/17/95 | 1194.2            | 33.77          | 1160.43               |
|         | 12/21/95 | 1194.2            | 33.75          | 1160.45               |
|         | 01/19/96 | 1194.2            | 35.57          | 1158.63               |
|         | 02/26/96 | 1194.2            | 35.38          | 1158.82               |
|         | 03/15/96 | 1194.2            | 35.91          | 1158.29               |
|         | 04/17/96 | 1194.2            | 35.98          | 1158.22               |
|         | 04/29/96 | 1194.2            | 36.2           | 1158                  |
|         | 05/30/96 | 1194.2            | 38.82          | 1155.38               |
|         | 06/18/96 | 1194.2            | 36.18          | 1158.02               |
|         | 07/02/96 | 1194.2            | 36.6           | 1157.6                |
|         | 07/16/96 | 1194.2            | 37.28          | 1156.92               |
|         | 08/14/96 | 1194.2            | 35.92          | 1158.28               |
|         | 09/27/96 | 1194.2            | 35.93          | 1158.27               |
|         | 10/09/96 | 1194.2            | 35.92          | 1158.28               |
|         | 10/28/96 | 1194.2            | 37.05          | 1157.15               |
|         | 11/02/96 | 1194.2            | 37.05          | 1157.15               |
|         | 12/31/96 | 1194.2            | 37.1           | 1157.1                |
|         | 01/10/97 | 1194.2            | 35.97          | 1158.23               |
|         | 01/23/97 | 1194.2            | 37.23          | 1156.97               |
|         | 02/18/97 | 1194.2            | 37.35          | 1156.85               |
|         | 03/20/97 | 1194.2            | 35.96          | 1158.24               |
|         | 04/02/97 | 1194.2            | 37.37          | 1156.83               |
|         | 06/30/97 | 1194.2            | 37.65          | 1156.55               |
|         | 07/29/97 | 1194.2            | 36.97          | 1157.23               |
|         | 08/07/97 | 1194.2            | 36.52          | 1157.68               |
|         | 08/26/97 | 1194.2            | 35.9           | 1158.3                |
|         | 09/30/97 | 1194.2            | 35.01          | 1159.19               |
|         | 10/16/97 | 1194.2            | 34.82          | 1159.38               |
|         | 10/27/97 | 1194.2            | 34.8           | 1159.4                |
|         | 12/30/97 | 1194.2            | 34.45          | 1159.75               |
|         | 12/30/97 | 1194.2            | 35.08          | 1159.12               |
|         | 01/26/98 | 1194.2            | 35.38          | 1158.82               |
|         | 04/07/98 | 1194.2            | 34.88          | 1159.32               |
|         | 04/28/98 | 1194.2            | 35.03          | 1159.17               |
|         | 07/28/98 | 1194.2            | 35.97          | 1158.23               |
|         | 10/12/98 | 1194.2            | 35.8           | 1158.4                |
|         | 11/03/98 | 1194.2            | 35.95          | 1158.25               |
|         | 04/09/99 | 1194.2            | 37.23          | 1156.97               |
|         | 04/27/99 | 1194.2            | 54.7           | 1139.5                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM731   | 07/15/99 | 1194.2            | 37.95          | 1156.25               |
|         | 10/12/99 | 1194.2            | 36.61          | 1157.59               |
|         | 12/14/99 | 1194.2            | 37.76          | 1156.44               |
|         | 02/08/00 | 1194.2            | 38.03          | 1156.17               |
|         | 04/05/00 | 1194.2            | 37.29          | 1156.91               |
|         | 04/14/00 | 1194.2            | 37.3           | 1156.9                |
|         | 07/15/00 | 1194.2            | 37.97          | 1156.23               |
|         | 10/07/00 | 1194.2            | 37.88          | 1156.32               |
|         | 10/18/00 | 1194.2            | 37.42          | 1156.78               |
| DM732   | 01/09/95 | 1190.58           | 34.76          | 1155.82               |
|         | 02/27/95 | 1190.58           | 34.94          | 1155.64               |
|         | 03/14/95 | 1190.58           | 34.08          | 1156.5                |
|         | 04/06/95 | 1190.58           | 35.24          | 1155.34               |
|         | 05/17/95 | 1190.58           | 36.07          | 1154.51               |
|         | 06/09/95 | 1190.58           | 36.34          | 1154.24               |
|         | 07/07/95 | 1190.58           | 36.41          | 1154.17               |
|         | 08/17/95 | 1190.58           | 36.41          | 1154.17               |
|         | 09/14/95 | 1190.58           | 36.5           | 1154.08               |
|         | 10/17/95 | 1190.58           | 34.94          | 1155.64               |
|         | 12/21/95 | 1190.58           | 34.93          | 1155.65               |
|         | 01/19/96 | 1190.58           | 35.5           | 1155.08               |
|         | 02/26/96 | 1190.58           | 36.29          | 1154.29               |
|         | 03/15/96 | 1190.58           | 36.4           | 1154.18               |
|         | 04/04/96 | 1190.58           | 36.35          | 1154.23               |
|         | 04/25/96 | 1190.58           | 36.8           | 1153.78               |
|         | 05/30/96 | 1190.58           | 37.6           | 1152.98               |
|         | 06/18/96 | 1190.58           | 35.69          | 1154.89               |
|         | 07/02/96 | 1190.58           | 37.1           | 1153.48               |
|         | 07/16/96 | 1190.58           | 38.33          | 1152.25               |
|         | 08/14/96 | 1190.58           | 36.42          | 1154.16               |
|         | 09/27/96 | 1190.58           | 36.42          | 1154.16               |
|         | 10/09/96 | 1190.58           | 36.42          | 1154.16               |
|         | 10/24/96 | 1190.58           | 38.8           | 1151.78               |
|         | 11/02/96 | 1190.58           | 38.8           | 1151.78               |
|         | 12/31/96 | 1190.58           | 38.84          | 1151.74               |
|         | 01/10/97 | 1190.58           | 36.43          | 1154.15               |
|         | 01/23/97 | 1190.58           | 38.91          | 1151.67               |
|         | 02/18/97 | 1190.58           | 38.91          | 1151.67               |
|         | 03/20/97 | 1190.58           | 36.44          | 1154.14               |
|         | 04/02/97 | 1190.58           | 39.08          | 1151.5                |
|         | 06/30/97 | 1190.58           | 34.41          | 1156.17               |
|         | 07/29/97 | 1190.58           | 38.4           | 1152.18               |
|         | 08/20/97 | 1190.58           | 38.42          | 1152.16               |
|         | 08/26/97 | 1190.58           | 37.03          | 1153.55               |
|         | 09/30/97 | 1190.58           | 36.03          | 1154.55               |
|         | 10/16/97 | 1190.58           | 36.03          | 1154.55               |
|         | 10/23/97 | 1190.58           | 36.1           | 1154.48               |
|         | 12/30/97 | 1190.58           | 36.45          | 1154.13               |
|         | 01/26/98 | 1190.58           | 35.73          | 1154.85               |
|         | 04/07/98 | 1190.58           | 34.87          | 1155.71               |
|         | 04/28/98 | 1190.58           | 35.14          | 1155.44               |
|         | 07/28/98 | 1190.58           | 36.95          | 1153.63               |
|         | 10/12/98 | 1190.58           | 36.7           | 1153.88               |
|         | 11/03/98 | 1190.58           | 37.07          | 1153.51               |
|         | 04/09/99 | 1190.58           | 38.91          | 1151.67               |
|         | 04/27/99 | 1190.58           | 53.36          | 1137.22               |
|         | 07/15/99 | 1190.58           | 40.12          | 1150.46               |
|         | 10/12/99 | 1190.58           | 38.64          | 1151.94               |
|         | 12/14/99 | 1190.58           | 39.78          | 1150.8                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| DM732   | 02/08/00 | 1190.58           | 40.43          | 1150.15               |
|         | 04/05/00 | 1190.58           | 39.89          | 1150.69               |
|         | 04/14/00 | 1190.58           | 39.85          | 1150.73               |
|         | 07/15/00 | 1190.58           | 40.67          | 1149.91               |
|         | 10/07/00 | 1190.58           | 40.18          | 1150.4                |
|         | 10/25/00 | 1190.58           | 39.97          | 1150.61               |
| DM733   | 01/09/95 | 1186.55           | 32.6           | 1153.95               |
|         | 02/27/95 | 1186.55           | 32.45          | 1154.1                |
|         | 03/14/95 | 1186.55           | 34.77          | 1151.78               |
|         | 04/06/95 | 1186.55           | 32.65          | 1153.9                |
|         | 05/17/95 | 1186.55           | 33.15          | 1153.4                |
|         | 06/09/95 | 1186.55           | 33.35          | 1153.2                |
|         | 07/07/95 | 1186.55           | 33.39          | 1153.16               |
|         | 08/17/95 | 1186.55           | 33.38          | 1153.17               |
|         | 09/14/95 | 1186.55           | 33.43          | 1153.12               |
|         | 10/17/95 | 1186.55           | 32.87          | 1153.68               |
|         | 11/13/95 | 1186.55           | 32.8           | 1153.75               |
|         | 12/21/95 | 1186.55           | 32.84          | 1153.71               |
|         | 01/19/96 | 1186.55           | 33.19          | 1153.36               |
|         | 02/26/96 | 1186.55           | 33.42          | 1153.13               |
|         | 03/15/96 | 1186.55           | 33.7           | 1152.85               |
|         | 04/04/96 | 1186.55           | 33.46          | 1153.09               |
|         | 04/24/96 | 1186.55           | 33.77          | 1152.78               |
|         | 05/30/96 | 1186.55           | 34.02          | 1152.53               |
|         | 06/18/96 | 1186.55           | 32.94          | 1153.61               |
|         | 07/02/96 | 1186.55           | 35.63          | 1150.92               |
|         | 08/14/96 | 1186.55           | 33.46          | 1153.09               |
|         | 09/27/96 | 1186.55           | 33.49          | 1153.06               |
|         | 10/09/96 | 1186.55           | 33.5           | 1153.05               |
|         | 10/24/96 | 1186.55           | 34.6           | 1151.95               |
|         | 11/02/96 | 1186.55           | 34.6           | 1151.95               |
|         | 12/31/96 | 1186.55           | 34.57          | 1151.98               |
|         | 01/10/97 | 1186.55           | 33.54          | 1153.01               |
|         | 01/23/97 | 1186.55           | 34.94          | 1151.61               |
|         | 02/18/97 | 1186.55           | 34.85          | 1151.7                |
|         | 03/20/97 | 1186.55           | 35.55          | 1151                  |
|         | 04/02/97 | 1186.55           | 34.89          | 1151.66               |
|         | 04/15/97 | 1186.55           | 35.19          | 1151.36               |
|         | 06/30/97 | 1186.55           | 35.51          | 1151.04               |
|         | 07/29/97 | 1186.55           | 35.69          | 1150.86               |
|         | 08/26/97 | 1186.55           | 35.38          | 1151.17               |
|         | 09/30/97 | 1186.55           | 35.08          | 1151.47               |
|         | 10/16/97 | 1186.55           | 35.08          | 1151.47               |
|         | 10/20/97 | 1186.55           | 35.02          | 1151.53               |
|         | 12/30/97 | 1186.55           | 35.25          | 1151.3                |
|         | 12/30/97 | 1186.55           | 35.05          | 1151.5                |
|         | 01/26/98 | 1186.55           | 35.25          | 1151.3                |
|         | 04/07/98 | 1186.55           | 33.99          | 1152.56               |
|         | 04/28/98 | 1186.55           | 33.76          | 1152.79               |
|         | 07/28/98 | 1186.55           | 34.41          | 1152.14               |
|         | 10/12/98 | 1186.55           | 34.31          | 1152.24               |
|         | 11/03/98 | 1186.55           | 34.43          | 1152.12               |
|         | 04/09/99 | 1186.55           | 35.08          | 1151.47               |
|         | 04/28/99 | 1186.55           | 55.95          | 1130.6                |
|         | 07/15/99 | 1186.55           | 35.67          | 1150.88               |
|         | 10/12/99 | 1186.55           | 34.95          | 1151.6                |
|         | 12/14/99 | 1186.55           | 35.61          | 1150.94               |
|         | 02/08/00 | 1186.55           | 35.77          | 1150.78               |
|         | 04/05/00 | 1186.55           | 35.31          | 1151.24               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM733     | 04/17/00 | 1186.55           | 35.49          | 1151.06               |
|           | 07/15/00 | 1186.55           | 36.03          | 1150.52               |
|           | 10/07/00 | 1186.55           | 36.19          | 1150.36               |
|           | 10/19/00 | 1186.55           | 36.15          | 1150.4                |
| DM734-045 | 01/12/95 | 1191.46           | 29.91          | 1161.55               |
|           | 03/15/95 | 1191.46           | 30.81          | 1160.65               |
|           | 04/05/95 | 1191.46           | 31.3           | 1160.16               |
|           | 05/08/95 | 1191.46           | 31.81          | 1159.65               |
|           | 06/20/95 | 1191.46           | 32.08          | 1159.38               |
|           | 07/19/95 | 1191.46           | 31.86          | 1159.6                |
|           | 08/29/95 | 1191.46           | 31.23          | 1160.23               |
|           | 10/23/95 | 1191.46           | 31.36          | 1160.1                |
|           | 11/30/95 | 1191.46           | 30.95          | 1160.51               |
|           | 01/23/96 | 1191.46           | 31.71          | 1159.75               |
|           | 02/27/96 | 1191.46           | 32.39          | 1159.07               |
|           | 03/28/96 | 1191.46           | 32.29          | 1159.17               |
|           | 04/18/96 | 1191.46           | 32.8           | 1158.66               |
|           | 05/16/96 | 1191.46           | 33.16          | 1158.3                |
|           | 06/13/96 | 1191.46           | 33.36          | 1158.1                |
|           | 07/09/96 | 1191.46           | 33.41          | 1158.05               |
|           | 08/15/96 | 1191.46           | 33.36          | 1158.1                |
|           | 09/11/96 | 1191.46           | 33.75          | 1157.71               |
|           | 10/16/96 | 1191.46           | 33.34          | 1158.12               |
|           | 11/19/96 | 1191.46           | 34.15          | 1157.31               |
|           | 12/30/96 | 1191.46           | 34.24          | 1157.22               |
|           | 01/17/97 | 1191.46           | 33.97          | 1157.49               |
|           | 02/19/97 | 1191.46           | 34.15          | 1157.31               |
|           | 03/25/97 | 1191.46           | 34.23          | 1157.23               |
|           | 04/09/97 | 1191.46           | 34.33          | 1157.13               |
|           | 04/09/97 | 1191.46           | 34.34          | 1157.12               |
|           | 06/03/97 | 1191.46           | 34.69          | 1156.77               |
|           | 07/30/97 | 1191.46           | 35.05          | 1156.41               |
|           | 08/27/97 | 1191.46           | 34.3           | 1157.16               |
|           | 09/30/97 | 1191.46           | 33.94          | 1157.52               |
|           | 10/15/97 | 1191.46           | 34.02          | 1157.44               |
|           | 11/12/97 | 1191.46           | 34.29          | 1157.17               |
|           | 11/13/97 | 1191.46           | 34.27          | 1157.19               |
|           | 12/30/97 | 1191.46           | 34.3           | 1157.16               |
|           | 01/27/98 | 1191.46           | 34.52          | 1156.94               |
|           | 04/16/98 | 1191.46           | 32.58          | 1158.88               |
|           | 07/30/98 | 1191.46           | 33.27          | 1158.19               |
|           | 10/20/98 | 1191.46           | 33.57          | 1157.89               |
|           | 04/07/99 | 1191.46           | 34.19          | 1157.27               |
|           | 07/09/99 | 1191.46           | 35.15          | 1156.31               |
|           | 11/09/99 | 1191.46           | 34.35          | 1157.11               |
|           | 02/15/00 | 1191.46           | 35.4           | 1156.06               |
|           | 04/07/00 | 1191.46           | 34.44          | 1157.02               |
|           | 08/07/00 | 1191.46           | 35.39          | 1156.07               |
|           | 11/14/00 | 1191.46           | 34.83          | 1156.63               |
| DM734-075 | 01/17/97 | 1191.46           | 33.08          | 1158.38               |
|           | 02/19/97 | 1191.46           | 34.09          | 1157.37               |
|           | 03/25/97 | 1191.46           | 34.24          | 1157.22               |
|           | 04/09/97 | 1191.46           | 34.28          | 1157.18               |
|           | 04/09/97 | 1191.46           | 34.29          | 1157.17               |
|           | 06/03/97 | 1191.46           | 34.72          | 1156.74               |
|           | 07/30/97 | 1191.46           | 35.02          | 1156.44               |
|           | 08/27/97 | 1191.46           | 34.32          | 1157.14               |
|           | 09/30/97 | 1191.46           | 33.98          | 1157.48               |
|           | 10/15/97 | 1191.46           | 34.14          | 1157.32               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM734-075 | 11/12/97 | 1191.46           | 34.23          | 1157.23               |
|           | 11/13/97 | 1191.46           | 34.3           | 1157.16               |
|           | 12/30/97 | 1191.46           | 34.35          | 1157.11               |
|           | 01/27/98 | 1191.46           | 34.55          | 1156.91               |
|           | 04/16/98 | 1191.46           | 32.68          | 1158.78               |
|           | 07/30/98 | 1191.46           | 33.26          | 1158.2                |
|           | 10/20/98 | 1191.46           | 33.59          | 1157.87               |
|           | 04/07/99 | 1191.46           | 34.19          | 1157.27               |
|           | 07/09/99 | 1191.46           | 35.26          | 1156.2                |
|           | 11/09/99 | 1191.46           | 34.29          | 1157.17               |
|           | 02/15/00 | 1191.46           | 35.41          | 1156.05               |
|           | 04/07/00 | 1191.46           | 34.5           | 1156.96               |
| DM734-110 | 08/07/00 | 1191.46           | 35.43          | 1156.03               |
|           | 11/14/00 | 1191.46           | 33.87          | 1157.59               |
|           | 01/12/95 | 1191.46           | 29.88          | 1161.58               |
|           | 03/15/95 | 1191.46           | 33.11          | 1158.35               |
|           | 04/05/95 | 1191.46           | 31.26          | 1160.2                |
|           | 05/08/95 | 1191.46           | 31.76          | 1159.7                |
|           | 06/20/95 | 1191.46           | 32.03          | 1159.43               |
|           | 07/19/95 | 1191.46           | 31.74          | 1159.72               |
|           | 08/29/95 | 1191.46           | 31.21          | 1160.25               |
|           | 10/23/95 | 1191.46           | 31.46          | 1160                  |
|           | 11/30/95 | 1191.46           | 31.04          | 1160.42               |
|           | 01/23/96 | 1191.46           | 31.67          | 1159.79               |
|           | 04/18/96 | 1191.46           | 32.79          | 1158.67               |
|           | 05/16/96 | 1191.46           | 33.17          | 1158.29               |
|           | 06/13/96 | 1191.46           | 33.35          | 1158.11               |
|           | 07/09/96 | 1191.46           | 33.51          | 1157.95               |
|           | 08/15/96 | 1191.46           | 33.41          | 1158.05               |
|           | 09/11/96 | 1191.46           | 33.8           | 1157.66               |
|           | 10/16/96 | 1191.46           | 33.45          | 1158.01               |
|           | 11/19/96 | 1191.46           | 34.15          | 1157.31               |
|           | 12/30/96 | 1191.46           | 34.2           | 1157.26               |
|           | 01/17/97 | 1191.46           | 33.98          | 1157.48               |
|           | 02/19/97 | 1191.46           | 34.13          | 1157.33               |
|           | 03/25/97 | 1191.46           | 34.19          | 1157.27               |
|           | 04/09/97 | 1191.46           | 34.32          | 1157.14               |
|           | 04/09/97 | 1191.46           | 34.33          | 1157.13               |
|           | 06/03/97 | 1191.46           | 34.71          | 1156.75               |
|           | 07/30/97 | 1191.46           | 34.96          | 1156.5                |
|           | 08/27/97 | 1191.46           | 34.33          | 1157.13               |
|           | 09/30/97 | 1191.46           | 33.99          | 1157.47               |
|           | 10/15/97 | 1191.46           | 34.13          | 1157.33               |
|           | 11/12/97 | 1191.46           | 34.26          | 1157.2                |
|           | 11/13/97 | 1191.46           | 34.27          | 1157.19               |
|           | 12/30/97 | 1191.46           | 34.31          | 1157.15               |
|           | 01/27/98 | 1191.46           | 34.59          | 1156.87               |
|           | 04/16/98 | 1191.46           | 32.64          | 1158.82               |
|           | 07/30/98 | 1191.46           | 33.28          | 1158.18               |
|           | 10/20/98 | 1191.46           | 33.59          | 1157.87               |
|           | 04/07/99 | 1191.46           | 34.22          | 1157.24               |
|           | 07/09/99 | 1191.46           | 35.11          | 1156.35               |
|           | 11/09/99 | 1191.46           | 34.33          | 1157.13               |
|           | 02/15/00 | 1191.46           | 35.41          | 1156.05               |
|           | 04/07/00 | 1191.46           | 34.54          | 1156.92               |
|           | 08/07/00 | 1191.46           | 35.47          | 1155.99               |
|           | 11/14/00 | 1191.46           | 33.85          | 1157.61               |
| DM734-125 | 01/17/97 | 1191.46           | 34.02          | 1157.44               |
|           | 02/19/97 | 1191.46           | 34.03          | 1157.43               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM734-125 | 03/25/97 | 1191.46           | 34.26          | 1157.2                |
|           | 04/09/97 | 1191.46           | 34.3           | 1157.16               |
|           | 04/09/97 | 1191.46           | 34.3           | 1157.16               |
|           | 06/03/97 | 1191.46           | 34.75          | 1156.71               |
|           | 07/30/97 | 1191.46           | 35.09          | 1156.37               |
|           | 08/27/97 | 1191.46           | 34.36          | 1157.1                |
|           | 09/30/97 | 1191.46           | 34.08          | 1157.38               |
|           | 10/15/97 | 1191.46           | 34.21          | 1157.25               |
|           | 11/12/97 | 1191.46           | 34.34          | 1157.12               |
|           | 11/13/97 | 1191.46           | 34.37          | 1157.09               |
|           | 12/30/97 | 1191.46           | 34.39          | 1157.07               |
|           | 01/27/98 | 1191.46           | 34.65          | 1156.81               |
|           | 04/16/98 | 1191.46           | 32.7           | 1158.76               |
|           | 07/30/98 | 1191.46           | 33.32          | 1158.14               |
|           | 10/20/98 | 1191.46           | 33.63          | 1157.83               |
|           | 04/07/99 | 1191.46           | 34.23          | 1157.23               |
|           | 07/09/99 | 1191.46           | 35.27          | 1156.19               |
|           | 11/09/99 | 1191.46           | 34.37          | 1157.09               |
|           | 02/15/00 | 1191.46           | 35.43          | 1156.03               |
|           | 04/07/00 | 1191.46           | 34.55          | 1156.91               |
|           | 08/07/00 | 1191.46           | 35.5           | 1155.96               |
|           | 11/14/00 | 1191.46           | 33.89          | 1157.57               |
| DM734-162 | 01/12/95 | 1191.46           | 30.12          | 1161.34               |
|           | 03/15/95 | 1191.46           | 31.02          | 1160.44               |
|           | 04/05/95 | 1191.46           | 31.35          | 1160.11               |
|           | 05/08/95 | 1191.46           | 31.88          | 1159.58               |
|           | 06/20/95 | 1191.46           | 32.15          | 1159.31               |
|           | 07/19/95 | 1191.46           | 31.91          | 1159.55               |
|           | 08/29/95 | 1191.46           | 31.33          | 1160.13               |
|           | 10/23/95 | 1191.46           | 31.56          | 1159.9                |
|           | 11/30/95 | 1191.46           | 31.17          | 1160.29               |
|           | 01/23/96 | 1191.46           | 32.06          | 1159.4                |
|           | 02/27/96 | 1191.46           | 32.47          | 1158.99               |
|           | 03/28/96 | 1191.46           | 32.43          | 1159.03               |
|           | 04/18/96 | 1191.46           | 32.91          | 1158.55               |
|           | 05/16/96 | 1191.46           | 33.32          | 1158.14               |
|           | 06/13/96 | 1191.46           | 33.46          | 1158                  |
|           | 07/09/96 | 1191.46           | 33.48          | 1157.98               |
|           | 08/15/96 | 1191.46           | 33.55          | 1157.91               |
|           | 09/11/96 | 1191.46           | 33.87          | 1157.59               |
|           | 10/16/96 | 1191.46           | 31.3           | 1160.16               |
|           | 11/19/96 | 1191.46           | 34.32          | 1157.14               |
|           | 12/30/96 | 1191.46           | 34.58          | 1156.88               |
|           | 01/17/97 | 1191.46           | 34.14          | 1157.32               |
|           | 02/19/97 | 1191.46           | 34.27          | 1157.19               |
|           | 03/25/97 | 1191.46           | 34.36          | 1157.1                |
|           | 04/09/97 | 1191.46           | 34.39          | 1157.07               |
|           | 04/09/97 | 1191.46           | 34.4           | 1157.06               |
|           | 06/03/97 | 1191.46           | 34.86          | 1156.6                |
|           | 07/30/97 | 1191.46           | 35.16          | 1156.3                |
|           | 08/27/97 | 1191.46           | 34.46          | 1157                  |
|           | 09/30/97 | 1191.46           | 34.21          | 1157.25               |
|           | 10/15/97 | 1191.46           | 34.28          | 1157.18               |
|           | 11/12/97 | 1191.46           | 34.46          | 1157                  |
|           | 11/13/97 | 1191.46           | 34.43          | 1157.03               |
|           | 12/30/97 | 1191.46           | 34.51          | 1156.95               |
|           | 01/27/98 | 1191.46           | 34.73          | 1156.73               |
|           | 04/16/98 | 1191.46           | 32.79          | 1158.67               |
|           | 07/30/98 | 1191.46           | 33.44          | 1158.02               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM734-162 | 10/20/98 | 1191.46           | 33.75          | 1157.71               |
|           | 04/07/99 | 1191.46           | 34.32          | 1157.14               |
|           | 07/09/99 | 1191.46           | 35.12          | 1156.34               |
|           | 11/09/99 | 1191.46           | 34.49          | 1156.97               |
|           | 02/15/00 | 1191.46           | 35.52          | 1155.94               |
|           | 04/07/00 | 1191.46           | 34.66          | 1156.8                |
|           | 08/07/00 | 1191.46           | 35.55          | 1155.91               |
|           | 11/14/00 | 1191.46           | 33.97          | 1157.49               |
| DM734-177 | 01/17/97 | 1191.46           | 34.1           | 1157.36               |
|           | 02/19/97 | 1191.46           | 34.27          | 1157.19               |
|           | 03/25/97 | 1191.46           | 34.34          | 1157.12               |
|           | 04/09/97 | 1191.46           | 34.45          | 1157.01               |
|           | 04/09/97 | 1191.46           | 34.45          | 1157.01               |
|           | 06/03/97 | 1191.46           | 34.84          | 1156.62               |
|           | 07/30/97 | 1191.46           | 35.13          | 1156.33               |
|           | 08/27/97 | 1191.46           | 34.46          | 1157                  |
|           | 09/30/97 | 1191.46           | 34.23          | 1157.23               |
|           | 10/15/97 | 1191.46           | 34.31          | 1157.15               |
|           | 11/12/97 | 1191.46           | 34.47          | 1156.99               |
|           | 11/13/97 | 1191.46           | 34.41          | 1157.05               |
|           | 12/30/97 | 1191.46           | 34.5           | 1156.96               |
|           | 01/27/98 | 1191.46           | 35.73          | 1155.73               |
|           | 04/16/98 | 1191.46           | 32.85          | 1158.61               |
|           | 07/30/98 | 1191.46           | 33.41          | 1158.05               |
|           | 10/20/98 | 1191.46           | 33.79          | 1157.67               |
|           | 04/07/99 | 1191.46           | 34.31          | 1157.15               |
|           | 07/09/99 | 1191.46           | 35.21          | 1156.25               |
|           | 11/09/99 | 1191.46           | 34.42          | 1157.04               |
|           | 02/15/00 | 1191.46           | 35.5           | 1155.96               |
|           | 04/07/00 | 1191.46           | 34.63          | 1156.83               |
|           | 08/07/00 | 1191.46           | 35.55          | 1155.91               |
|           | 11/14/00 | 1191.46           | 33.99          | 1157.47               |
| DM734-200 | 01/12/95 | 1191.46           | 29.61          | 1161.85               |
|           | 03/15/95 | 1191.46           | 30.52          | 1160.94               |
|           | 04/05/95 | 1191.46           | 30.66          | 1160.8                |
|           | 05/08/95 | 1191.46           | 31.28          | 1160.18               |
|           | 06/20/95 | 1191.46           | 31.74          | 1159.72               |
|           | 07/19/95 | 1191.46           | 31.29          | 1160.17               |
|           | 08/29/95 | 1191.46           | 30.91          | 1160.55               |
|           | 10/23/95 | 1191.46           | 31.45          | 1160.01               |
|           | 11/30/95 | 1191.46           | 30.5           | 1160.96               |
|           | 01/23/96 | 1191.46           | 31.97          | 1159.49               |
|           | 02/27/96 | 1191.46           | 31.7           | 1159.76               |
|           | 03/28/96 | 1191.46           | 31.55          | 1159.91               |
|           | 04/18/96 | 1191.46           | 32.37          | 1159.09               |
|           | 05/16/96 | 1191.46           | 32.8           | 1158.66               |
|           | 06/13/96 | 1191.46           | 33.04          | 1158.42               |
|           | 07/09/96 | 1191.46           | 33.01          | 1158.45               |
|           | 08/15/96 | 1191.46           | 33.07          | 1158.39               |
|           | 09/11/96 | 1191.46           | 33.42          | 1158.04               |
|           | 10/16/96 | 1191.46           | 33.12          | 1158.34               |
|           | 11/19/96 | 1191.46           | 33.71          | 1157.75               |
|           | 12/30/96 | 1191.46           | 33.84          | 1157.62               |
|           | 01/17/97 | 1191.46           | 33.82          | 1157.64               |
|           | 02/19/97 | 1191.46           | 33.73          | 1157.73               |
|           | 03/25/97 | 1191.46           | 34.12          | 1157.34               |
|           | 04/09/97 | 1191.46           | 34.55          | 1156.91               |
|           | 04/09/97 | 1191.46           | 34.55          | 1156.91               |
|           | 06/03/97 | 1191.46           | 34.7           | 1156.76               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM734-200 | 07/30/97 | 1191.46           | 35.07          | 1156.39               |
|           | 08/27/97 | 1191.46           | 33.72          | 1157.74               |
|           | 09/30/97 | 1191.46           | 33.46          | 1158                  |
|           | 10/15/97 | 1191.46           | 34.2           | 1157.26               |
|           | 11/12/97 | 1191.46           | 33.54          | 1157.92               |
|           | 11/13/97 | 1191.46           | 33.63          | 1157.83               |
|           | 12/30/97 | 1191.46           | 33.92          | 1157.54               |
|           | 01/27/98 | 1191.46           | 34.62          | 1156.84               |
|           | 04/16/98 | 1191.46           | 32.44          | 1159.02               |
|           | 07/30/98 | 1191.46           | 33.23          | 1158.23               |
|           | 10/20/98 | 1191.46           | 32.95          | 1158.51               |
|           | 04/07/99 | 1191.46           | 33.61          | 1157.85               |
|           | 07/09/99 | 1191.46           | 33.03          | 1158.43               |
|           | 11/09/99 | 1191.46           | 35.56          | 1155.9                |
|           | 02/15/00 | 1191.46           | 34.96          | 1156.5                |
|           | 04/07/00 | 1191.46           | 33.75          | 1157.71               |
|           | 08/07/00 | 1191.46           | 34.7           | 1156.76               |
|           | 11/14/00 | 1191.46           | 33.3           | 1158.16               |
| DM734-215 | 01/17/97 | 1191.46           | 32.28          | 1159.18               |
|           | 02/19/97 | 1191.46           | 33.78          | 1157.68               |
|           | 03/25/97 | 1191.46           | 33.93          | 1157.53               |
|           | 04/09/97 | 1191.46           | 33.92          | 1157.54               |
|           | 04/09/97 | 1191.46           | 33.93          | 1157.53               |
|           | 06/03/97 | 1191.46           | 34.29          | 1157.17               |
|           | 07/30/97 | 1191.46           | 34.59          | 1156.87               |
|           | 08/27/97 | 1191.46           | 33.75          | 1157.71               |
|           | 09/30/97 | 1191.46           | 33.55          | 1157.91               |
|           | 10/15/97 | 1191.46           | 33.48          | 1157.98               |
|           | 11/12/97 | 1191.46           | 33.52          | 1157.94               |
|           | 11/13/97 | 1191.46           | 33.56          | 1157.9                |
|           | 12/30/97 | 1191.46           | 33.61          | 1157.85               |
|           | 01/27/98 | 1191.46           | 34.02          | 1157.44               |
|           | 04/16/98 | 1191.46           | 32.15          | 1159.31               |
|           | 07/30/98 | 1191.46           | 32.95          | 1158.51               |
|           | 10/20/98 | 1191.46           | 33.05          | 1158.41               |
|           | 04/07/99 | 1191.46           | 33.68          | 1157.78               |
|           | 07/09/99 | 1191.46           | 34.47          | 1156.99               |
|           | 11/09/99 | 1191.46           | 35.69          | 1155.77               |
|           | 02/15/00 | 1191.46           | 34.98          | 1156.48               |
|           | 04/07/00 | 1191.46           | 33.74          | 1157.72               |
|           | 08/07/00 | 1191.46           | 34.92          | 1156.54               |
|           | 11/14/00 | 1191.46           | 33.29          | 1158.17               |
| DM734-240 | 01/12/95 | 1191.46           | 29.47          | 1161.99               |
|           | 03/15/95 | 1191.46           | 30.52          | 1160.94               |
|           | 04/05/95 | 1191.46           | 30.73          | 1160.73               |
|           | 05/08/95 | 1191.46           | 31.34          | 1160.12               |
|           | 06/20/95 | 1191.46           | 31.76          | 1159.7                |
|           | 07/19/95 | 1191.46           | 31.25          | 1160.21               |
|           | 08/29/95 | 1191.46           | 31.01          | 1160.45               |
|           | 10/23/95 | 1191.46           | 31.1           | 1160.36               |
|           | 11/30/95 | 1191.46           | 30.62          | 1160.84               |
|           | 01/23/96 | 1191.46           | 31.5           | 1159.96               |
|           | 02/27/96 | 1191.46           | 31.8           | 1159.66               |
|           | 03/28/96 | 1191.46           | 31.93          | 1159.53               |
|           | 04/18/96 | 1191.46           | 32.34          | 1159.12               |
|           | 05/16/96 | 1191.46           | 32.81          | 1158.65               |
|           | 06/13/96 | 1191.46           | 33.6           | 1157.86               |
|           | 07/09/96 | 1191.46           | 33.59          | 1157.87               |
|           | 08/15/96 | 1191.46           | 33.64          | 1157.82               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM734-240 | 09/11/96 | 1191.46           | 33.4           | 1158.06               |
|           | 10/16/96 | 1191.46           | 33.7           | 1157.76               |
|           | 11/19/96 | 1191.46           | 33.78          | 1157.68               |
|           | 12/30/96 | 1191.46           | 33.86          | 1157.6                |
|           | 01/17/97 | 1191.46           | 33.8           | 1157.66               |
|           | 02/19/97 | 1191.46           | 33.83          | 1157.63               |
|           | 03/25/97 | 1191.46           | 34.06          | 1157.4                |
|           | 04/09/97 | 1191.46           | 34.03          | 1157.43               |
|           | 04/09/97 | 1191.46           | 34.53          | 1156.93               |
|           | 06/03/97 | 1191.46           | 34.39          | 1157.07               |
|           | 07/30/97 | 1191.46           | 34.77          | 1156.69               |
|           | 08/27/97 | 1191.46           | 33.72          | 1157.74               |
|           | 09/30/97 | 1191.46           | 33.55          | 1157.91               |
|           | 10/15/97 | 1191.46           | 33.65          | 1157.81               |
|           | 11/12/97 | 1191.46           | 33.75          | 1157.71               |
|           | 11/13/97 | 1191.46           | 33.65          | 1157.81               |
|           | 12/30/97 | 1191.46           | 33.83          | 1157.63               |
|           | 01/27/98 | 1191.46           | 34.27          | 1157.19               |
|           | 04/16/98 | 1191.46           | 32.37          | 1159.09               |
|           | 07/30/98 | 1191.46           | 33.2           | 1158.26               |
|           | 10/20/98 | 1191.46           | 33.38          | 1158.08               |
|           | 04/07/99 | 1191.46           | 33.48          | 1157.98               |
|           | 07/09/99 | 1191.46           | 34.05          | 1157.41               |
|           | 11/09/99 | 1191.46           | 35.23          | 1156.23               |
|           | 02/15/00 | 1191.46           | 35.02          | 1156.44               |
|           | 04/07/00 | 1191.46           | 33.53          | 1157.93               |
|           | 08/07/00 | 1191.46           | 34.87          | 1156.59               |
|           | 11/14/00 | 1191.46           | 33.34          | 1158.12               |
| DM734-255 | 01/17/97 | 1191.46           | 33.86          | 1157.6                |
|           | 02/19/97 | 1191.46           | 33.82          | 1157.64               |
|           | 03/25/97 | 1191.46           | 34.15          | 1157.31               |
|           | 04/09/97 | 1191.46           | 34.39          | 1157.07               |
|           | 04/09/97 | 1191.46           | 34.4           | 1157.06               |
|           | 06/03/97 | 1191.46           | 34.61          | 1156.85               |
|           | 07/30/97 | 1191.46           | 34.93          | 1156.53               |
|           | 08/27/97 | 1191.46           | 33.69          | 1157.77               |
|           | 09/30/97 | 1191.46           | 33.48          | 1157.98               |
|           | 10/15/97 | 1191.46           | 33.36          | 1158.1                |
|           | 11/12/97 | 1191.46           | 33.57          | 1157.89               |
|           | 11/13/97 | 1191.46           | 33.62          | 1157.84               |
|           | 12/30/97 | 1191.46           | 33.73          | 1157.73               |
|           | 01/27/98 | 1191.46           | 35.16          | 1156.3                |
|           | 04/16/98 | 1191.46           | 32.43          | 1159.03               |
|           | 07/30/98 | 1191.46           | 33.32          | 1158.14               |
|           | 10/20/98 | 1191.46           | 33.03          | 1158.43               |
|           | 04/07/99 | 1191.46           | 33.57          | 1157.89               |
|           | 07/09/99 | 1191.46           | 32.88          | 1158.58               |
|           | 11/09/99 | 1191.46           | 35.72          | 1155.74               |
|           | 02/15/00 | 1191.46           | 34.97          | 1156.49               |
|           | 04/07/00 | 1191.46           | 33.73          | 1157.73               |
|           | 08/07/00 | 1191.46           | 34.72          | 1156.74               |
|           | 11/14/00 | 1191.46           | 33.26          | 1158.2                |
| DM734-280 | 01/12/95 | 1191.46           | 29.22          | 1162.24               |
|           | 03/15/95 | 1191.46           | 30.32          | 1161.14               |
|           | 04/05/95 | 1191.46           | 30.74          | 1160.72               |
|           | 05/08/95 | 1191.46           | 31.51          | 1159.95               |
|           | 06/20/95 | 1191.46           | 31.75          | 1159.71               |
|           | 07/19/95 | 1191.46           | 31.28          | 1160.18               |
|           | 08/29/95 | 1191.46           | 30.76          | 1160.7                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID   | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|-----------|----------|-------------------|----------------|-----------------------|
| DM734-280 | 10/23/95 | 1191.46           | 30.96          | 1160.5                |
|           | 11/30/95 | 1191.46           | 30.69          | 1160.77               |
|           | 01/23/96 | 1191.46           | 31.73          | 1159.73               |
|           | 02/27/96 | 1191.46           | 31.69          | 1159.77               |
|           | 03/28/96 | 1191.46           | 31.22          | 1160.24               |
|           | 04/18/96 | 1191.46           | 32.43          | 1159.03               |
|           | 05/16/96 | 1191.46           | 32.89          | 1158.57               |
|           | 06/13/96 | 1191.46           | 33.29          | 1158.17               |
|           | 07/09/96 | 1191.46           | 33.33          | 1158.13               |
|           | 08/15/96 | 1191.46           | 33.4           | 1158.06               |
|           | 09/11/96 | 1191.46           | 33.36          | 1158.1                |
|           | 10/16/96 | 1191.46           | 33.39          | 1158.07               |
|           | 11/19/96 | 1191.46           | 33.71          | 1157.75               |
|           | 12/30/96 | 1191.46           | 33.72          | 1157.74               |
|           | 01/17/97 | 1191.46           | 33.73          | 1157.73               |
|           | 02/19/97 | 1191.46           | 33.7           | 1157.76               |
|           | 03/25/97 | 1191.46           | 33.89          | 1157.57               |
|           | 04/09/97 | 1191.46           | 33.81          | 1157.65               |
|           | 04/09/97 | 1191.46           | 33.82          | 1157.64               |
|           | 06/03/97 | 1191.46           | 34.23          | 1157.23               |
|           | 07/30/97 | 1191.46           | 34.46          | 1157                  |
|           | 08/27/97 | 1191.46           | 33.45          | 1158.01               |
|           | 09/30/97 | 1191.46           | 33.26          | 1158.2                |
|           | 10/15/97 | 1191.46           | 33.2           | 1158.26               |
|           | 11/12/97 | 1191.46           | 33.4           | 1158.06               |
|           | 11/13/97 | 1191.46           | 33.33          | 1158.13               |
|           | 12/30/97 | 1191.46           | 33.24          | 1158.22               |
|           | 01/27/98 | 1191.46           | 34.02          | 1157.44               |
|           | 04/16/98 | 1191.46           | 32.08          | 1159.38               |
|           | 07/30/98 | 1191.46           | 32.49          | 1158.97               |
|           | 10/20/98 | 1191.46           | 32.62          | 1158.84               |
|           | 04/07/99 | 1191.46           | 33.48          | 1157.98               |
|           | 07/09/99 | 1191.46           | 34.56          | 1156.9                |
|           | 11/09/99 | 1191.46           | 34.95          | 1156.51               |
|           | 02/15/00 | 1191.46           | 34.96          | 1156.5                |
|           | 04/07/00 | 1191.46           | 33.99          | 1157.47               |
|           | 08/07/00 | 1191.46           | 34.75          | 1156.71               |
|           | 11/14/00 | 1191.46           | 33.13          | 1158.33               |
| EW18      | 01/19/95 | 1196.01           | 28.45          | 1167.56               |
|           | 04/06/95 | 1196.01           | 34.96          | 1161.05               |
|           | 05/01/95 | 1196.01           | 29.33          | 1166.68               |
|           | 10/24/95 | 1196.01           | 30.43          | 1165.58               |
|           | 11/08/95 | 1196.01           | 30.71          | 1165.3                |
|           | 02/16/96 | 1196.01           | 31.79          | 1164.22               |
|           | 04/17/96 | 1196.01           | 31.59          | 1164.42               |
|           | 05/02/96 | 1196.01           | 32.81          | 1163.2                |
|           | 07/03/96 | 1196.01           | 31.23          | 1164.78               |
|           | 10/08/96 | 1196.01           | 31.25          | 1164.76               |
|           | 10/25/96 | 1193.1            | 33.16          | 1159.94               |
|           | 11/05/96 | 1196.01           | 33.2           | 1162.81               |
|           | 01/09/97 | 1196.01           | 31.28          | 1164.73               |
|           | 04/10/97 | 1196.01           | 34.7           | 1161.31               |
|           | 04/11/97 | 1196.01           | 34.75          | 1161.26               |
|           | 04/24/97 | 1196.01           | 34.8           | 1161.21               |
|           | 07/29/97 | 1196.01           | 34.57          | 1161.44               |
|           | 10/29/97 | 1196.01           | 35.4           | 1160.61               |
|           | 11/04/97 | 1196.01           | 35.42          | 1160.59               |
|           | 03/31/98 | 1196.01           | 35.88          | 1160.13               |
|           | 04/08/98 | 1196.01           | 35.85          | 1160.16               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| EW18    | 04/22/98 | 1196.01           | 35.89          | 1160.12               |
|         | 08/06/98 | 1196.01           | 36.19          | 1159.82               |
|         | 10/12/98 | 1196.01           | 35.92          | 1160.09               |
|         | 11/11/98 | 1196.01           | 35.38          | 1160.63               |
|         | 04/08/99 | 1196.01           | 36.35          | 1159.66               |
|         | 04/27/99 | 1193.1            | 37.38          | 1155.72               |
|         | 07/15/99 | 1193.1            | 36.96          | 1156.14               |
|         | 10/11/99 | 1193.1            | 36.83          | 1156.27               |
|         | 12/15/99 | 1193.1            | 37.23          | 1155.87               |
|         | 05/04/00 | 1193.1            | 38.48          | 1154.62               |
|         | 08/04/00 | 1193.1            | 39.12          | 1153.98               |
|         | 10/11/00 | 1193.1            | 39.11          | 1153.99               |
|         | 11/03/00 | 1193.1            | 38.78          | 1154.32               |
| K       | 02/07/95 | 1227.43           | 12.65          | 1214.78               |
|         | 02/28/95 | 1227.43           | 14.65          | 1212.78               |
|         | 03/28/95 | 1227.43           | 13.63          | 1213.8                |
|         | 04/27/95 | 1227.43           | 14.65          | 1212.78               |
|         | 08/25/95 | 1227.39           | 15.6           | 1211.79               |
|         | 09/23/95 | 1227.39           | 15.62          | 1211.77               |
|         | 10/31/95 | 1227.39           | 15             | 1212.39               |
|         | 11/13/95 | 1227.39           | 14.52          | 1212.87               |
|         | 12/08/95 | 1227.39           | 13.92          | 1213.47               |
|         | 03/16/96 | 1228.82           | 16.89          | 1211.93               |
|         | 04/17/96 | 1228.82           | 17.44          | 1211.38               |
|         | 05/18/96 | 1228.82           | 17.52          | 1211.3                |
|         | 06/01/96 | 1228.82           | 17.38          | 1211.44               |
|         | 07/02/96 | 1228.82           | 17.34          | 1211.48               |
|         | 08/09/96 | 1228.82           | 17.21          | 1211.61               |
|         | 09/10/96 | 1228.82           | 17.66          | 1211.16               |
|         | 10/04/96 | 1228.82           | 17.96          | 1210.86               |
|         | 10/04/96 | 1228.82           | 18.16          | 1210.66               |
|         | 10/23/96 | 1228.82           | 21.25          | 1207.57               |
|         | 11/08/96 | 1228.82           | 17.98          | 1210.84               |
|         | 11/27/96 | 1228.82           | 16.84          | 1211.98               |
|         | 12/13/96 | 1228.82           | 13.83          | 1214.99               |
|         | 01/09/97 | 1228.82           | 14.94          | 1213.88               |
|         | 02/12/97 | 1228.82           | 15.15          | 1213.67               |
|         | 03/14/97 | 1228.82           | 16.82          | 1212                  |
|         | 04/10/97 | 1228.82           | 18.2           | 1210.62               |
|         | 05/08/97 | 1228.82           | 20.23          | 1208.59               |
|         | 06/05/97 | 1228.82           | 21.79          | 1207.03               |
|         | 07/09/97 | 1228.82           | 22.43          | 1206.39               |
|         | 08/15/97 | 1228.82           | 23.86          | 1204.96               |
|         | 09/11/97 | 1228.82           | 23.98          | 1204.84               |
|         | 10/13/97 | 1228.82           | 24.21          | 1204.61               |
|         | 11/15/97 | 1228.82           | 24.44          | 1204.38               |
|         | 12/05/97 | 1228.82           | 24.42          | 1204.4                |
|         | 01/10/98 | 1228.82           | 23.37          | 1205.45               |
|         | 01/28/98 | 1228.82           | 24.02          | 1204.8                |
|         | 02/27/98 | 1228.82           | 22.48          | 1206.34               |
|         | 03/30/98 | 1228.82           | 22.52          | 1206.3                |
|         | 04/13/98 | 1228.82           | 20.83          | 1207.99               |
|         | 06/06/98 | 1228.82           | 20.98          | 1207.84               |
|         | 07/30/98 | 1228.82           | 23.34          | 1205.48               |
|         | 10/13/98 | 1228.82           | 24.6           | 1204.22               |
|         | 04/09/99 | 1228.82           | 24.81          | 1204.01               |
|         | 07/16/99 | 1228.82           | 25.82          | 1203                  |
|         | 10/12/99 | 1228.82           | 25.61          | 1203.21               |
|         | 12/15/99 | 1228.82           | 25.28          | 1203.54               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID  | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|----------|----------|-------------------|----------------|-----------------------|
| K        | 09/08/00 | 1228.82           | 18.16          | 1210.66               |
|          | 10/09/00 | 1228.82           | 18.49          | 1210.33               |
|          | 10/20/00 | 1228.82           | 18.26          | 1210.56               |
|          |          |                   |                |                       |
| L        | 02/07/95 | 1226.26           | 22.86          | 1203.4                |
|          | 02/28/95 | 1226.26           | 23.61          | 1202.65               |
|          | 03/28/95 | 1226.26           | 22.74          | 1203.52               |
|          | 04/27/95 | 1226.26           | 23.03          | 1203.23               |
|          | 08/25/95 | 1226.28           | 24.54          | 1201.74               |
|          | 09/23/95 | 1226.28           | 24.4           | 1201.88               |
|          | 10/31/95 | 1226.28           | 24.38          | 1201.9                |
|          | 11/13/95 | 1226.28           | 24.46          | 1201.82               |
|          | 12/08/95 | 1226.28           | 23.93          | 1202.35               |
|          | 03/16/96 | 1227.03           | 25.1           | 1201.93               |
|          | 04/17/96 | 1226.78           | 24.93          | 1201.85               |
|          | 05/18/96 | 1226.78           | 24.36          | 1202.42               |
|          | 06/01/96 | 1226.78           | 24.46          | 1202.32               |
|          | 07/02/96 | 1226.78           | 24.57          | 1202.21               |
|          | 08/09/96 | 1226.78           | 24.14          | 1202.64               |
|          | 09/10/96 | 1226.78           | 24.59          | 1202.19               |
|          | 10/04/96 | 1226.78           | 24.77          | 1202.01               |
|          | 10/04/96 | 1226.78           | 24.73          | 1202.05               |
|          | 10/23/96 | 1226.78           | 27.5           | 1199.28               |
|          | 11/08/96 | 1226.78           | 74.83          | 1151.95               |
|          | 11/27/96 | 1226.78           | 24.84          | 1201.94               |
|          | 12/13/96 | 1226.78           | 17.04          | 1209.74               |
|          | 01/09/97 | 1226.78           | 21.06          | 1205.72               |
|          | 02/12/97 | 1226.78           | 23.25          | 1203.53               |
|          | 03/14/97 | 1226.78           | 23.94          | 1202.84               |
|          | 04/10/97 | 1226.78           | 24.43          | 1202.35               |
|          | 05/08/97 | 1226.78           | 25.32          | 1201.46               |
|          | 06/05/97 | 1226.78           | 26.07          | 1200.71               |
|          | 07/09/97 | 1226.78           | 26.61          | 1200.17               |
|          | 08/15/97 | 1226.78           | 27.63          | 1199.15               |
|          | 09/11/97 | 1226.78           | 27.57          | 1199.21               |
|          | 10/13/97 | 1226.78           | 27.86          | 1198.92               |
|          | 11/15/97 | 1226.78           | 28.14          | 1198.64               |
|          | 12/05/97 | 1226.78           | 28.13          | 1198.65               |
|          | 01/10/98 | 1226.78           | 27.8           | 1198.98               |
|          | 01/28/98 | 1226.78           | 27.84          | 1198.94               |
|          | 02/27/98 | 1226.78           | 27.3           | 1199.48               |
|          | 03/30/98 | 1226.78           | 27.35          | 1199.43               |
|          | 04/13/98 | 1226.78           | 25.9           | 1200.88               |
|          | 06/06/98 | 1226.78           | 26.04          | 1200.74               |
|          | 07/30/98 | 1226.78           | 27.04          | 1199.74               |
|          | 10/13/98 | 1226.78           | 27.81          | 1198.97               |
|          | 04/09/99 | 1226.78           | 28.54          | 1198.24               |
|          | 07/16/99 | 1226.78           | 29.5           | 1197.28               |
|          | 12/09/99 | 1226.78           | 28.69          | 1198.09               |
|          | 10/09/00 | 1226.78           | 27.93          | 1198.85               |
|          | 10/23/00 | 1226.78           | 28.03          | 1198.75               |
|          |          |                   |                |                       |
| LANGMADE | 01/10/95 | 1173.25           | 18.62          | 1154.63               |
|          | 02/27/95 | 1173.25           | 16.78          | 1156.47               |
|          | 03/14/95 | 1173.25           | 16.76          | 1156.49               |
|          | 04/06/95 | 1173.25           | 17.55          | 1155.7                |
|          | 06/09/95 | 1173.25           | 18.77          | 1154.48               |
|          | 07/07/95 | 1173.25           | 19.08          | 1154.17               |
|          | 08/17/95 | 1173.25           | 19.06          | 1154.19               |
|          | 09/13/95 | 1173.25           | 19.12          | 1154.13               |
|          | 10/16/95 | 1173.25           | 17.92          | 1155.33               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID  | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|----------|----------|-------------------|----------------|-----------------------|
| LANGMADE | 12/21/95 | 1173.25           | 17.93          | 1155.32               |
|          | 01/19/96 | 1173.25           | 17.75          | 1155.5                |
|          | 02/28/96 | 1173.25           | 17.6           | 1155.65               |
|          | 03/26/96 | 1173.25           | 16.69          | 1156.56               |
|          | 04/04/96 | 1173.25           | 17.68          | 1155.57               |
|          | 06/18/96 | 1173.25           | 18.02          | 1155.23               |
|          | 07/03/96 | 1173.25           | 17.09          | 1156.16               |
|          | 10/08/96 | 1173.25           | 17.21          | 1156.04               |
|          | 01/09/97 | 1173.25           | 17.21          | 1156.04               |
|          | 04/03/97 | 1173.25           | 18.72          | 1154.53               |
|          | 07/24/97 | 1173.25           | 20.85          | 1152.4                |
|          | 10/06/97 | 1173.25           | 18.94          | 1154.31               |
|          | 01/29/98 | 1173.25           | 19.13          | 1154.12               |
|          | 04/08/98 | 1173.25           | 16.78          | 1156.47               |
|          | 08/06/98 | 1173.25           | 19.28          | 1153.97               |
|          | 10/12/98 | 1173.25           | 18.15          | 1155.1                |
|          | 04/08/99 | 1173.25           | 20.58          | 1152.67               |
|          | 07/14/99 | 1173.25           | 19.93          | 1153.32               |
|          | 10/13/99 | 1173.25           | 19.32          | 1153.93               |
|          | 02/22/00 | 1173.25           | 21.06          | 1152.19               |
|          | 04/06/00 | 1173.25           | 20.01          | 1153.24               |
|          | 07/15/00 | 1173.25           | 19.75          | 1153.5                |
|          | 10/11/00 | 1173.25           | 20.18          | 1153.07               |
| MP03-A   | 04/06/95 | 1215.46           | 37.89          | 1177.57               |
|          | 05/25/95 | 1215.46           | 38.01          | 1177.45               |
|          | 06/15/95 | 1215.46           | 38.23          | 1177.23               |
|          | 07/11/95 | 1215.46           | 38.25          | 1177.21               |
|          | 10/17/95 | 1215.46           | 38.3           | 1177.16               |
|          | 12/27/95 | 1215.46           | 38.63          | 1176.83               |
|          | 01/12/96 | 1215.46           | 39.8           | 1175.66               |
|          | 02/28/96 | 1215.46           | 39.28          | 1176.18               |
|          | 03/21/96 | 1215.46           | 35.1           | 1180.36               |
|          | 04/08/96 | 1215.46           | 39.16          | 1176.3                |
| MP03-A   | 06/20/96 | 1215.46           | 39.27          | 1176.19               |
|          | 01/10/97 | 1215.46           | 37.95          | 1177.51               |
| MP03-B   | 01/10/95 | 1215.3            | 36.7           | 1178.6                |
|          | 02/01/95 | 1215.3            | 36.05          | 1179.25               |
|          | 02/03/95 | 1215.3            | 38.24          | 1177.06               |
|          | 02/28/95 | 1215.3            | 36.68          | 1178.62               |
|          | 03/27/95 | 1215.3            | 38.1           | 1177.2                |
|          | 04/06/95 | 1215.3            | 38.1           | 1177.2                |
|          | 05/18/95 | 1215.3            | 38.25          | 1177.05               |
|          | 06/15/95 | 1215.3            | 38.13          | 1177.17               |
|          | 07/11/95 | 1215.3            | 38.17          | 1177.13               |
|          | 07/27/95 | 1215.3            | 39.77          | 1175.53               |
|          | 08/29/95 | 1215.3            | 38.19          | 1177.11               |
|          | 09/30/95 | 1215.3            | 38.23          | 1177.07               |
|          | 10/17/95 | 1215.3            | 38.16          | 1177.14               |
|          | 11/20/95 | 1215.3            | 38.95          | 1176.35               |
|          | 12/27/95 | 1215.3            | 38.2           | 1177.1                |
|          | 01/12/96 | 1215.3            | 39.13          | 1176.17               |
|          | 02/12/96 | 1215.3            | 39.15          | 1176.15               |
|          | 02/28/96 | 1215.3            | 39.15          | 1176.15               |
|          | 03/21/96 | 1215.3            | 37.3           | 1178                  |
|          | 04/08/96 | 1215.3            | 39.08          | 1176.22               |
|          | 05/15/96 | 1215.3            | 39.12          | 1176.18               |
|          | 06/20/96 | 1215.3            | 39.18          | 1176.12               |
|          | 07/02/96 | 1215.3            | 38.06          | 1177.24               |
|          | 07/19/96 | 1215.3            | 39.9           | 1175.4                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP03-B  | 08/14/96 | 1215.3            | 38.09          | 1177.21               |
|         | 09/27/96 | 1215.3            | 38.06          | 1177.24               |
|         | 10/03/96 | 1215.3            | 38.78          | 1176.52               |
|         | 11/20/96 | 1215.3            | 39.81          | 1175.49               |
|         | 12/31/96 | 1215.3            | 38.85          | 1176.45               |
|         | 01/10/97 | 1215.3            | 38.79          | 1176.51               |
|         | 01/29/97 | 1215.3            | 41.1           | 1174.2                |
|         | 02/13/97 | 1215.3            | 39.6           | 1175.7                |
|         | 03/21/97 | 1215.3            | 39.9           | 1175.4                |
|         | 04/01/97 | 1215.3            | 39.3           | 1176                  |
|         | 05/19/97 | 1215.3            | 40.26          | 1175.04               |
|         | 06/11/97 | 1215.3            | 40.26          | 1175.04               |
|         | 06/30/97 | 1215.3            | 40.9           | 1174.4                |
|         | 07/29/97 | 1215.3            | 41.45          | 1173.85               |
|         | 08/13/97 | 1215.3            | 42             | 1173.3                |
|         | 08/25/97 | 1215.3            | 41.48          | 1173.82               |
|         | 09/30/97 | 1215.3            | 41.19          | 1174.11               |
|         | 10/09/97 | 1215.3            | 37.9           | 1177.4                |
|         | 11/29/97 | 1215.3            | 42.95          | 1172.35               |
|         | 12/09/97 | 1215.3            | 49.9           | 1165.4                |
|         | 01/29/98 | 1215.3            | 41.43          | 1173.87               |
|         | 04/14/98 | 1215.3            | 40.96          | 1174.34               |
|         | 07/29/98 | 1215.3            | 42.82          | 1172.48               |
|         | 10/12/98 | 1215.3            | 41.65          | 1173.65               |
|         | 04/12/99 | 1215.3            | 38.05          | 1177.25               |
|         | 07/16/99 | 1215.3            | 41.43          | 1173.87               |
|         | 10/13/99 | 1215.3            | 46.24          | 1169.06               |
|         | 02/08/00 | 1215.3            | 44.56          | 1170.74               |
|         | 04/06/00 | 1215.3            | 42.44          | 1172.86               |
|         | 08/16/00 | 1215.3            | 49.59          | 1165.71               |
|         | 10/05/00 | 1215.3            | 46.6           | 1168.7                |
| MP03-C  | 04/06/95 | 1215.3            | 38.04          | 1177.26               |
|         | 05/25/95 | 1215.3            | 38.09          | 1177.21               |
|         | 06/15/95 | 1215.3            | 38.09          | 1177.21               |
|         | 07/11/95 | 1215.3            | 38             | 1177.3                |
|         | 10/17/95 | 1215.3            | 38.05          | 1177.25               |
|         | 12/27/95 | 1215.3            | 39.29          | 1176.01               |
|         | 01/12/96 | 1215.3            | 53.8           | 1161.5                |
|         | 02/28/96 | 1215.3            | 38.33          | 1176.97               |
|         | 03/21/96 | 1215.3            | 37.9           | 1177.4                |
|         | 04/08/96 | 1215.3            | 38.41          | 1176.89               |
|         | 06/20/96 | 1215.3            | 36.81          | 1178.49               |
| MP03-D  | 01/10/95 | 1215.3            | 33.6           | 1181.7                |
|         | 02/03/95 | 1215.3            | 37.46          | 1177.84               |
|         | 02/28/95 | 1215.3            | 35.83          | 1179.47               |
|         | 03/27/95 | 1215.3            | 38.64          | 1176.66               |
|         | 04/06/95 | 1215.3            | 38.64          | 1176.66               |
|         | 05/25/95 | 1215.3            | 38.8           | 1176.5                |
|         | 06/15/95 | 1215.3            | 39.53          | 1175.77               |
|         | 07/11/95 | 1215.3            | 39.52          | 1175.78               |
|         | 07/27/95 | 1215.3            | 39.9           | 1175.4                |
|         | 08/29/95 | 1215.3            | 39.49          | 1175.81               |
|         | 09/30/95 | 1215.3            | 39.55          | 1175.75               |
|         | 10/17/95 | 1215.3            | 39.56          | 1175.74               |
|         | 11/20/95 | 1215.3            | 35.37          | 1179.93               |
|         | 12/27/95 | 1215.3            | 39.5           | 1175.8                |
|         | 01/12/96 | 1215.3            | 54.26          | 1161.04               |
|         | 02/12/96 | 1215.3            | 37.75          | 1177.55               |
|         | 02/28/96 | 1215.3            | 37.75          | 1177.55               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP03-D  | 03/21/96 | 1215.3            | 39.2           | 1176.1                |
|         | 04/08/96 | 1215.3            | 36.73          | 1178.57               |
|         | 05/15/96 | 1215.3            | 32.81          | 1182.49               |
|         | 05/20/96 | 1215.3            | 37.81          | 1177.49               |
|         | 06/20/96 | 1215.3            | 32.04          | 1183.26               |
|         | 07/02/96 | 1215.3            | 36.8           | 1178.5                |
|         | 07/19/96 | 1215.3            | 38.95          | 1176.35               |
|         | 08/14/96 | 1215.3            | 36.82          | 1178.48               |
|         | 09/27/96 | 1215.3            | 36.81          | 1178.49               |
|         | 10/03/96 | 1215.3            | 36.7           | 1178.6                |
|         | 11/20/96 | 1215.3            | 39             | 1176.3                |
|         | 12/31/96 | 1215.3            | 37.2           | 1178.1                |
|         | 01/10/97 | 1215.3            | 38             | 1177.3                |
|         | 01/30/97 | 1215.3            | 39.85          | 1175.45               |
|         | 02/13/97 | 1215.3            | 39.9           | 1175.4                |
|         | 03/21/97 | 1215.3            | 40.2           | 1175.1                |
|         | 04/01/97 | 1215.3            | 38.5           | 1176.8                |
|         | 05/20/97 | 1215.3            | 66.78          | 1148.52               |
|         | 06/11/97 | 1215.3            | 40.32          | 1174.98               |
|         | 06/30/97 | 1215.3            | 39.63          | 1175.67               |
|         | 07/29/97 | 1215.3            | 40.38          | 1174.92               |
|         | 08/18/97 | 1215.3            | 40.7           | 1174.6                |
|         | 08/25/97 | 1215.3            | 40.71          | 1174.59               |
|         | 09/30/97 | 1215.3            | 40.79          | 1174.51               |
|         | 10/09/97 | 1215.3            | 38.5           | 1176.8                |
|         | 11/29/97 | 1215.3            | 41.05          | 1174.25               |
|         | 12/08/97 | 1215.3            | 25.39          | 1189.91               |
|         | 12/09/97 | 1215.3            | 67             | 1148.3                |
|         | 01/29/98 | 1215.3            | 43.35          | 1171.95               |
|         | 04/14/98 | 1215.3            | 39.8           | 1175.5                |
|         | 07/29/98 | 1215.3            | 66.6           | 1148.7                |
|         | 10/12/98 | 1215.3            | 41.29          | 1174.01               |
|         | 04/12/99 | 1215.3            | 41.96          | 1173.34               |
|         | 07/16/99 | 1215.3            | 41.7           | 1173.6                |
|         | 10/13/99 | 1215.3            | 44.67          | 1170.63               |
|         | 02/08/00 | 1215.3            | 44.52          | 1170.78               |
|         | 04/06/00 | 1215.3            | 44.94          | 1170.36               |
|         | 08/16/00 | 1215.3            | 47.88          | 1167.42               |
|         | 10/05/00 | 1215.3            | 44.99          | 1170.31               |
| MP09-A  | 04/06/95 | 1214.43           | 37.21          | 1177.22               |
|         | 05/25/95 | 1214.43           | 37.2           | 1177.23               |
|         | 06/15/95 | 1214.43           | 37.25          | 1177.18               |
|         | 07/12/95 | 1214.43           | 37.26          | 1177.17               |
|         | 10/16/95 | 1214.43           | 35.94          | 1178.49               |
|         | 12/27/95 | 1214.43           | 36.63          | 1177.8                |
|         | 01/12/96 | 1214.43           | 38.12          | 1176.31               |
|         | 02/28/96 | 1214.43           | 38.18          | 1176.25               |
|         | 03/21/96 | 1214.43           | 37.9           | 1176.53               |
|         | 04/17/96 | 1214.43           | 38.29          | 1176.14               |
| MP09-B  | 06/20/96 | 1214.43           | 32.11          | 1182.32               |
|         | 01/10/95 | 1214.43           | 36.06          | 1178.37               |
|         | 02/01/95 | 1214.43           | 36.05          | 1178.38               |
|         | 02/28/95 | 1214.43           | 37             | 1177.43               |
|         | 03/27/95 | 1214.43           | 36.7           | 1177.73               |
|         | 04/06/95 | 1214.43           | 36.7           | 1177.73               |
|         | 05/18/95 | 1214.43           | 36.86          | 1177.57               |
|         | 06/15/95 | 1214.43           | 36.85          | 1177.58               |
|         | 07/12/95 | 1214.43           | 36.9           | 1177.53               |
|         | 07/28/95 | 1214.43           | 38.78          | 1175.65               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP09-B  | 08/30/95 | 1214.43           | 36.91          | 1177.52               |
|         | 09/30/95 | 1214.43           | 36.98          | 1177.45               |
|         | 10/16/95 | 1214.43           | 36.89          | 1177.54               |
|         | 11/20/95 | 1214.43           | 35             | 1179.43               |
|         | 12/27/95 | 1214.43           | 36.8           | 1177.63               |
|         | 01/12/96 | 1214.43           | 37.97          | 1176.46               |
|         | 02/12/96 | 1214.43           | 45.17          | 1169.26               |
|         | 02/28/96 | 1214.43           | 45.17          | 1169.26               |
|         | 03/21/96 | 1214.43           | 38.96          | 1175.47               |
|         | 04/17/96 | 1214.43           | 38.26          | 1176.17               |
|         | 05/14/96 | 1214.43           | 37.15          | 1177.28               |
|         | 05/24/96 | 1214.43           | 39.1           | 1175.33               |
|         | 06/20/96 | 1214.43           | 33.67          | 1180.76               |
|         | 07/02/96 | 1214.43           | 37.49          | 1176.94               |
|         | 07/17/96 | 1214.43           | 33.9           | 1180.53               |
|         | 08/14/96 | 1214.43           | 37.5           | 1176.93               |
|         | 09/27/96 | 1214.43           | 37.5           | 1176.93               |
|         | 10/03/96 | 1214.43           | 38.48          | 1175.95               |
|         | 11/21/96 | 1214.43           | 38.74          | 1175.69               |
|         | 11/26/96 | 1214.43           | 39             | 1175.43               |
|         | 12/31/96 | 1214.43           | 38.6           | 1175.83               |
|         | 01/09/97 | 1214.43           | 37.45          | 1176.98               |
|         | 01/27/97 | 1214.43           | 37.85          | 1176.58               |
|         | 02/17/97 | 1214.43           | 38.65          | 1175.78               |
|         | 03/21/97 | 1214.43           | 39             | 1175.43               |
|         | 04/01/97 | 1214.43           | 38.25          | 1176.18               |
|         | 05/13/97 | 1214.43           | 39.17          | 1175.26               |
|         | 06/11/97 | 1214.43           | 39.17          | 1175.26               |
|         | 06/30/97 | 1214.43           | 39.9           | 1174.53               |
|         | 07/29/97 | 1214.43           | 40.29          | 1174.14               |
|         | 08/12/97 | 1214.43           | 41.7           | 1172.73               |
|         | 08/25/97 | 1214.43           | 40.78          | 1173.65               |
|         | 09/30/97 | 1214.43           | 41.56          | 1172.87               |
|         | 10/09/97 | 1214.43           | 41.4           | 1173.03               |
|         | 11/29/97 | 1214.43           | 42.02          | 1172.41               |
|         | 12/16/97 | 1214.43           | 39.72          | 1174.71               |
|         | 01/29/98 | 1214.43           | 40.3           | 1174.13               |
|         | 04/14/98 | 1214.43           | 40.12          | 1174.31               |
|         | 07/29/98 | 1214.43           | 41.54          | 1172.89               |
|         | 10/12/98 | 1214.43           | 41.14          | 1173.29               |
|         | 04/12/99 | 1214.43           | 42.09          | 1172.34               |
|         | 07/16/99 | 1214.43           | 43.51          | 1170.92               |
|         | 10/13/99 | 1214.43           | 44.3           | 1170.13               |
|         | 02/08/00 | 1214.43           | 45.57          | 1168.86               |
|         | 04/06/00 | 1214.43           | 45.09          | 1169.34               |
|         | 08/16/00 | 1214.43           | 47.47          | 1166.96               |
|         | 10/05/00 | 1214.43           | 45.15          | 1169.28               |
|         | 04/06/95 | 1214.43           | 36.62          | 1177.81               |
|         | 05/25/95 | 1214.43           | 36.8           | 1177.63               |
|         | 06/15/95 | 1214.43           | 36.9           | 1177.53               |
|         | 07/12/95 | 1214.43           | 36.91          | 1177.52               |
|         | 10/16/95 | 1214.43           | 36.53          | 1177.9                |
|         | 12/27/95 | 1214.43           | 37.29          | 1177.14               |
|         | 01/12/96 | 1214.43           | 39.59          | 1174.84               |
|         | 02/28/96 | 1214.43           | 37.49          | 1176.94               |
|         | 03/21/96 | 1214.43           | 37.52          | 1176.91               |
|         | 04/17/96 | 1214.43           | 37.5           | 1176.93               |
|         | 01/09/97 | 1214.43           | 37.49          | 1176.94               |
| MP09-D  | 01/10/95 | 1214.43           | 34.8           | 1179.63               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP09-D  | 01/31/95 | 1214.43           | 34.82          | 1179.61               |
|         | 02/28/95 | 1214.43           | 36             | 1178.43               |
|         | 03/27/95 | 1214.43           | 36.05          | 1178.38               |
|         | 04/06/95 | 1214.43           | 36.05          | 1178.38               |
|         | 05/18/95 | 1214.43           | 36.21          | 1178.22               |
|         | 06/15/95 | 1214.43           | 36.34          | 1178.09               |
|         | 07/12/95 | 1214.43           | 36.31          | 1178.12               |
|         | 07/28/95 | 1214.43           | 37.65          | 1176.78               |
|         | 08/30/95 | 1214.43           | 36.35          | 1178.08               |
|         | 09/30/95 | 1214.43           | 36.42          | 1178.01               |
|         | 10/16/95 | 1214.43           | 36.21          | 1178.22               |
|         | 11/20/95 | 1214.43           | 36.89          | 1177.54               |
|         | 12/27/95 | 1214.43           | 36.2           | 1178.23               |
|         | 01/12/96 | 1214.43           | 37.97          | 1176.46               |
|         | 02/12/96 | 1214.43           | 37.49          | 1176.94               |
|         | 02/28/96 | 1214.43           | 37.49          | 1176.94               |
|         | 03/21/96 | 1214.43           | 41.47          | 1172.96               |
|         | 04/17/96 | 1214.43           | 37.52          | 1176.91               |
|         | 05/14/96 | 1214.43           | 34.2           | 1180.23               |
|         | 06/20/96 | 1214.43           | 36.82          | 1177.61               |
|         | 07/02/96 | 1214.43           | 36.8           | 1177.63               |
|         | 07/17/96 | 1214.43           | 33.2           | 1181.23               |
|         | 08/14/96 | 1214.43           | 36.79          | 1177.64               |
|         | 09/27/96 | 1214.43           | 36.81          | 1177.62               |
|         | 10/03/96 | 1214.43           | 37.6           | 1176.83               |
|         | 11/05/96 | 1214.43           | 38.4           | 1176.03               |
|         | 12/31/96 | 1214.43           | 37.8           | 1176.63               |
|         | 01/09/97 | 1214.43           | 37.33          | 1177.1                |
|         | 01/29/97 | 1214.43           | 38             | 1176.43               |
|         | 02/17/97 | 1214.43           | 37.6           | 1176.83               |
|         | 03/21/97 | 1214.43           | 37.65          | 1176.78               |
|         | 04/01/97 | 1214.43           | 37.2           | 1177.23               |
|         | 05/15/97 | 1214.43           | 40.31          | 1174.12               |
|         | 06/11/97 | 1214.43           | 33.17          | 1181.26               |
|         | 06/30/97 | 1214.43           | 38.34          | 1176.09               |
|         | 07/29/97 | 1214.43           | 38.96          | 1175.47               |
|         | 08/12/97 | 1214.43           | 38.8           | 1175.63               |
|         | 08/25/97 | 1214.43           | 39.04          | 1175.39               |
|         | 09/30/97 | 1214.43           | 39.56          | 1174.87               |
|         | 10/09/97 | 1214.43           | 39.77          | 1174.66               |
|         | 11/29/97 | 1214.43           | 40.22          | 1174.21               |
|         | 12/17/97 | 1214.43           | 40.5           | 1173.93               |
|         | 01/29/98 | 1214.43           | 39.26          | 1175.17               |
|         | 04/14/98 | 1214.43           | 38.38          | 1176.05               |
|         | 07/29/98 | 1214.43           | 41.16          | 1173.27               |
|         | 10/12/98 | 1214.43           | 39.5           | 1174.93               |
|         | 04/12/99 | 1214.43           | 40.39          | 1174.04               |
|         | 07/16/99 | 1214.43           | 42.42          | 1172.01               |
|         | 10/13/99 | 1214.43           | 40.35          | 1174.08               |
|         | 02/08/00 | 1214.43           | 42.91          | 1171.52               |
|         | 04/06/00 | 1214.43           | 42.67          | 1171.76               |
|         | 08/16/00 | 1214.43           | 44.91          | 1169.52               |
|         | 10/05/00 | 1214.43           | 43.34          | 1171.09               |
| MP11-A  | 04/06/95 | 1209.1            | 31.5           | 1177.6                |
|         | 05/25/95 | 1209.1            | 31.9           | 1177.2                |
|         | 06/15/95 | 1209.1            | 31.93          | 1177.17               |
|         | 07/12/95 | 1209.1            | 31.95          | 1177.15               |
|         | 10/17/95 | 1209.1            | 31.96          | 1177.14               |
|         | 12/21/95 | 1209.1            | 31.95          | 1177.15               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP11-A  | 02/28/96 | 1209.1            | 30.72          | 1178.38               |
|         | 04/09/96 | 1209.1            | 30.61          | 1178.49               |
|         | 06/24/96 | 1209.1            | 30.64          | 1178.46               |
|         | 01/09/97 | 1209.1            | 30.72          | 1178.38               |
| MP11-B  | 01/25/95 | 1209.14           | 30.8           | 1178.34               |
|         | 01/30/95 | 1209.14           | 28.63          | 1180.51               |
|         | 02/28/95 | 1209.14           | 30.78          | 1178.36               |
|         | 03/27/95 | 1209.14           | 31.88          | 1177.26               |
|         | 04/06/95 | 1209.14           | 31.88          | 1177.26               |
|         | 05/10/95 | 1209.14           | 31.22          | 1177.92               |
|         | 06/15/95 | 1209.14           | 31.25          | 1177.89               |
|         | 07/12/95 | 1209.14           | 31.29          | 1177.85               |
|         | 08/30/95 | 1209.14           | 31.26          | 1177.88               |
|         | 09/30/95 | 1209.14           | 31.3           | 1177.84               |
|         | 10/17/95 | 1209.14           | 31.29          | 1177.85               |
|         | 11/06/95 | 1209.14           | 31.7           | 1177.44               |
|         | 12/21/95 | 1209.14           | 31.73          | 1177.41               |
|         | 01/12/96 | 1209.14           | 33.15          | 1175.99               |
|         | 02/28/96 | 1209.14           | 31.72          | 1177.42               |
|         | 03/21/96 | 1209.14           | 35.04          | 1174.1                |
|         | 04/09/96 | 1209.14           | 31.67          | 1177.47               |
|         | 05/08/96 | 1209.14           | 31.5           | 1177.64               |
|         | 06/24/96 | 1209.14           | 31.7           | 1177.44               |
|         | 07/02/96 | 1209.14           | 30.82          | 1178.32               |
|         | 08/14/96 | 1209.14           | 30.86          | 1178.28               |
|         | 09/27/96 | 1209.14           | 30.85          | 1178.29               |
|         | 10/03/96 | 1209.14           | 30.85          | 1178.29               |
|         | 11/18/96 | 1209.14           | 32.25          | 1176.89               |
|         | 11/19/96 | 1209.14           | 32.25          | 1176.89               |
|         | 12/31/96 | 1209.14           | 31.1           | 1178.04               |
|         | 01/09/97 | 1209.14           | 31.52          | 1177.62               |
|         | 02/17/97 | 1209.14           | 31             | 1178.14               |
|         | 03/21/97 | 1209.14           | 30.1           | 1179.04               |
|         | 04/01/97 | 1209.14           | 29.52          | 1179.62               |
|         | 05/15/97 | 1209.14           | 31.57          | 1177.57               |
|         | 06/11/97 | 1209.14           | 30.12          | 1179.02               |
|         | 06/30/97 | 1209.14           | 31.15          | 1177.99               |
|         | 07/28/97 | 1209.14           | 31.6           | 1177.54               |
|         | 08/25/97 | 1209.14           | 31.38          | 1177.76               |
|         | 09/30/97 | 1209.14           | 31.64          | 1177.5                |
|         | 10/09/97 | 1209.14           | 31.8           | 1177.34               |
|         | 11/29/97 | 1209.14           | 34             | 1175.14               |
|         | 12/09/97 | 1209.14           | 29.65          | 1179.49               |
|         | 12/10/97 | 1209.14           | 27.77          | 1181.37               |
|         | 01/30/98 | 1209.14           | 31.45          | 1177.69               |
|         | 04/14/98 | 1209.14           | 31.13          | 1178.01               |
|         | 07/28/98 | 1209.14           | 33.26          | 1175.88               |
|         | 10/12/98 | 1209.14           | 34.1           | 1175.04               |
|         | 12/02/98 | 1209.14           | 31.28          | 1177.86               |
|         | 04/12/99 | 1209.14           | 33.05          | 1176.09               |
|         | 07/16/99 | 1209.14           | 36.1           | 1173.04               |
|         | 12/08/99 | 1209.14           | 35.43          | 1173.71               |
|         | 12/09/99 | 1209.14           | 35.43          | 1173.71               |
|         | 02/08/00 | 1209.14           | 32.74          | 1176.4                |
|         | 04/06/00 | 1209.14           | 37.2           | 1171.94               |
|         | 08/16/00 | 1209.14           | 36.59          | 1172.55               |
|         | 10/05/00 | 1209.14           | 35.74          | 1173.4                |
|         | 11/06/00 | 1209.14           | 34.87          | 1174.27               |
| MP11-C  | 04/06/95 | 1209.14           | 31.06          | 1178.08               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP11-C  | 05/25/95 | 1209.14           | 31.12          | 1178.02               |
|         | 06/15/95 | 1209.14           | 31.15          | 1177.99               |
|         | 07/12/95 | 1209.14           | 31.14          | 1178                  |
|         | 10/17/95 | 1209.14           | 31.16          | 1177.98               |
|         | 12/21/95 | 1209.14           | 31.23          | 1177.91               |
|         | 01/12/96 | 1209.14           | 31.77          | 1177.37               |
|         | 02/28/96 | 1209.14           | 31.42          | 1177.72               |
|         | 03/21/96 | 1209.14           | 31.24          | 1177.9                |
|         | 04/09/96 | 1209.14           | 31.44          | 1177.7                |
|         | 06/24/96 | 1209.14           | 31.45          | 1177.69               |
|         | 01/09/97 | 1209.14           | 30.91          | 1178.23               |
| MP11-D  | 01/25/95 | 1209.14           | 30.18          | 1178.96               |
|         | 01/30/95 | 1209.14           | 28.42          | 1180.72               |
|         | 02/28/95 | 1209.14           | 30.22          | 1178.92               |
|         | 03/27/95 | 1209.14           | 30.5           | 1178.64               |
|         | 04/06/95 | 1209.14           | 30.5           | 1178.64               |
|         | 05/10/95 | 1209.14           | 30.5           | 1178.64               |
|         | 06/15/95 | 1209.14           | 30.85          | 1178.29               |
|         | 07/12/95 | 1209.14           | 30.86          | 1178.28               |
|         | 08/30/95 | 1209.14           | 30.87          | 1178.27               |
|         | 09/30/95 | 1209.14           | 30.91          | 1178.23               |
|         | 10/17/95 | 1209.14           | 30.86          | 1178.28               |
|         | 11/06/95 | 1209.14           | 30.91          | 1178.23               |
|         | 12/21/95 | 1209.14           | 30.91          | 1178.23               |
|         | 01/12/96 | 1209.14           | 30.47          | 1178.67               |
|         | 02/28/96 | 1209.14           | 31.42          | 1177.72               |
|         | 03/21/96 | 1209.14           | 32.51          | 1176.63               |
|         | 04/09/96 | 1209.14           | 31.38          | 1177.76               |
|         | 05/01/96 | 1209.14           | 28.45          | 1180.69               |
|         | 05/02/96 | 1209.14           | 43             | 1166.14               |
|         | 06/24/96 | 1209.14           | 31.39          | 1177.75               |
|         | 07/02/96 | 1209.14           | 30.69          | 1178.45               |
|         | 09/27/96 | 1209.14           | 30.72          | 1178.42               |
|         | 10/03/96 | 1209.14           | 30.71          | 1178.43               |
|         | 10/31/96 | 1209.14           | -999           | Dry                   |
|         | 11/21/96 | 1209.14           | 32.1           | 1177.04               |
|         | 12/31/96 | 1209.14           | 31             | 1178.14               |
|         | 01/09/97 | 1209.14           | 31.24          | 1177.9                |
|         | 02/17/97 | 1209.14           | 29.5           | 1179.64               |
|         | 03/21/97 | 1209.14           | 30.28          | 1178.86               |
|         | 04/01/97 | 1209.14           | 29.25          | 1179.89               |
|         | 05/08/97 | 1209.14           | 30.03          | 1179.11               |
|         | 05/13/97 | 1209.14           | 29.95          | 1179.19               |
|         | 06/11/97 | 1209.14           | 29.95          | 1179.19               |
|         | 06/30/97 | 1209.14           | 30.55          | 1178.59               |
|         | 07/28/97 | 1209.14           | 31.04          | 1178.1                |
|         | 08/25/97 | 1209.14           | 30.93          | 1178.21               |
|         | 09/30/97 | 1209.14           | 30.64          | 1178.5                |
|         | 10/09/97 | 1209.14           | 31.89          | 1177.25               |
|         | 11/29/97 | 1209.14           | 32.7           | 1176.44               |
|         | 12/09/97 | 1209.14           | 32.98          | 1176.16               |
|         | 12/10/97 | 1209.14           | 24.38          | 1184.76               |
|         | 01/30/98 | 1209.14           | 31.72          | 1177.42               |
|         | 04/14/98 | 1209.14           | 30.99          | 1178.15               |
|         | 07/28/98 | 1209.14           | 33.59          | 1175.55               |
|         | 10/12/98 | 1209.14           | 33.44          | 1175.7                |
|         | 12/11/98 | 1209.14           | 33.59          | 1175.55               |
|         | 04/12/99 | 1209.14           | 32.84          | 1176.3                |
|         | 07/16/99 | 1209.14           | 34.65          | 1174.49               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP11-D  | 12/08/99 | 1209.14           | 35.5           | 1173.64               |
|         | 12/09/99 | 1209.14           | 35.5           | 1173.64               |
|         | 02/08/00 | 1209.14           | 34.44          | 1174.7                |
|         | 04/06/00 | 1209.14           | 36.88          | 1172.26               |
|         | 08/16/00 | 1209.14           | 37.22          | 1171.92               |
|         | 10/05/00 | 1209.14           | 37.29          | 1171.85               |
|         | 11/07/00 | 1209.14           | 38.34          | 1170.8                |
| MP13-A  | 01/10/95 | 1205.13           | 19             | 1186.13               |
|         | 02/27/95 | 1205.13           | 25.15          | 1179.98               |
|         | 03/14/95 | 1205.13           | 25.15          | 1179.98               |
|         | 04/06/95 | 1205.13           | 26.1           | 1179.03               |
|         | 07/07/95 | 1205.13           | 26.12          | 1179.01               |
|         | 08/17/95 | 1205.13           | 26.1           | 1179.03               |
|         | 09/14/95 | 1205.13           | 26.15          | 1178.98               |
|         | 10/17/95 | 1205.13           | 26.15          | 1178.98               |
|         | 12/21/95 | 1205.13           | 26.18          | 1178.95               |
|         | 01/19/96 | 1205.13           | 26.14          | 1178.99               |
|         | 02/28/96 | 1205.13           | 26.14          | 1178.99               |
|         | 03/19/96 | 1205.13           | 25.25          | 1179.88               |
|         | 04/10/96 | 1205.13           | 26.03          | 1179.1                |
|         | 06/18/96 | 1205.13           | 26.87          | 1178.26               |
|         | 01/09/97 | 1205.13           | 20.15          | 1184.98               |
| MP13-B  | 04/06/95 | 1205.13           | 25.47          | 1179.66               |
|         | 05/11/95 | 1205.13           | 25.58          | 1179.55               |
|         | 07/07/95 | 1205.13           | 25.43          | 1179.7                |
|         | 08/17/95 | 1205.13           | 25.44          | 1179.69               |
|         | 09/14/95 | 1205.13           | 25.5           | 1179.63               |
|         | 10/17/95 | 1205.13           | 25.49          | 1179.64               |
|         | 11/03/95 | 1205.13           | 28.1           | 1177.03               |
|         | 12/21/95 | 1205.13           | 25.53          | 1179.6                |
|         | 01/19/96 | 1205.13           | 28.33          | 1176.8                |
|         | 02/28/96 | 1205.13           | 28.33          | 1176.8                |
|         | 03/19/96 | 1205.13           | 31.11          | 1174.02               |
|         | 04/10/96 | 1205.13           | 28.21          | 1176.92               |
|         | 05/24/96 | 1205.13           | 29             | 1176.13               |
|         | 06/18/96 | 1205.13           | 29.09          | 1176.04               |
|         | 07/02/96 | 1205.13           | 27.35          | 1177.78               |
|         | 09/30/96 | 1205.13           | 28.26          | 1176.87               |
|         | 10/03/96 | 1205.13           | 28.25          | 1176.88               |
|         | 11/25/96 | 1205.13           | 34.8           | 1170.33               |
|         | 11/26/96 | 1205.13           | 34.8           | 1170.33               |
|         | 12/31/96 | 1205.13           | 34.87          | 1170.26               |
|         | 01/09/97 | 1205.13           | 20.42          | 1184.71               |
|         | 02/17/97 | 1205.13           | 21.8           | 1183.33               |
|         | 03/21/97 | 1205.13           | 20.1           | 1185.03               |
|         | 04/01/97 | 1205.13           | 19.5           | 1185.63               |
|         | 04/25/97 | 1205.13           | 20.06          | 1185.07               |
|         | 06/30/97 | 1205.13           | 20.66          | 1184.47               |
|         | 07/29/97 | 1205.13           | 20.39          | 1184.74               |
|         | 08/25/97 | 1205.13           | 19.69          | 1185.44               |
|         | 09/30/97 | 1205.13           | 19.52          | 1185.61               |
|         | 10/17/97 | 1205.13           | 21.48          | 1183.65               |
|         | 11/29/97 | 1205.13           | 22.57          | 1182.56               |
|         | 12/11/97 | 1205.13           | 25.45          | 1179.68               |
|         | 01/30/98 | 1205.13           | 25.77          | 1179.36               |
|         | 04/14/98 | 1205.13           | 23.46          | 1181.67               |
|         | 07/28/98 | 1205.13           | 26.95          | 1178.18               |
|         | 10/12/98 | 1205.13           | 26.77          | 1178.36               |
|         | 12/03/98 | 1205.13           | 27.54          | 1177.59               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP13-B  | 04/12/99 | 1205.13           | 30.4           | 1174.73               |
|         | 07/16/99 | 1205.13           | 29.45          | 1175.68               |
|         | 12/09/99 | 1205.13           | 29.22          | 1175.91               |
|         | 12/09/99 | 1205.13           | 29.22          | 1175.91               |
|         | 02/08/00 | 1205.13           | 28.95          | 1176.18               |
|         | 04/06/00 | 1205.13           | 31.28          | 1173.85               |
|         | 08/16/00 | 1205.13           | 30.79          | 1174.34               |
|         | 10/05/00 | 1205.13           | 30.05          | 1175.08               |
| MP13-C  | 11/14/00 | 1205.13           | 29.6           | 1175.53               |
|         | 04/06/95 | 1205.13           | 25.36          | 1179.77               |
|         | 07/07/95 | 1205.13           | 26.34          | 1178.79               |
|         | 08/17/95 | 1205.13           | 26.34          | 1178.79               |
|         | 09/14/95 | 1205.13           | 26.31          | 1178.82               |
|         | 10/17/95 | 1205.13           | 26.31          | 1178.82               |
|         | 12/21/95 | 1205.13           | 26.35          | 1178.78               |
|         | 01/19/96 | 1205.13           | 28.09          | 1177.04               |
|         | 02/28/96 | 1205.13           | 28.09          | 1177.04               |
|         | 03/19/96 | 1205.13           | 27.4           | 1177.73               |
|         | 04/10/96 | 1205.13           | 28.05          | 1177.08               |
| MP13-D  | 06/18/96 | 1205.13           | 28.93          | 1176.2                |
|         | 01/09/97 | 1205.13           | 20.05          | 1185.08               |
|         | 04/06/95 | 1205.13           | 25.3           | 1179.83               |
|         | 05/11/95 | 1205.13           | 25.41          | 1179.72               |
|         | 07/12/95 | 1205.13           | 25.01          | 1180.12               |
|         | 08/17/95 | 1205.13           | 25.03          | 1180.1                |
|         | 09/14/95 | 1205.13           | 24.99          | 1180.14               |
|         | 10/17/95 | 1205.13           | 25.01          | 1180.12               |
|         | 11/03/95 | 1205.13           | 25.93          | 1179.2                |
|         | 12/21/95 | 1205.13           | 25.03          | 1180.1                |
|         | 01/19/96 | 1205.13           | 26.89          | 1178.24               |
|         | 02/28/96 | 1205.13           | 26.89          | 1178.24               |
|         | 03/19/96 | 1205.13           | 26.18          | 1178.95               |
|         | 04/10/96 | 1205.13           | 26.8           | 1178.33               |
|         | 04/25/96 | 1205.13           | 28             | 1177.13               |
|         | 06/18/96 | 1205.13           | 27.15          | 1177.98               |
|         | 07/02/96 | 1205.13           | 26             | 1179.13               |
|         | 09/30/96 | 1205.13           | 26.84          | 1178.29               |
|         | 10/03/96 | 1205.13           | 26.83          | 1178.3                |
|         | 10/23/96 | 1205.13           | 26.3           | 1178.83               |
|         | 11/05/96 | 1205.13           | 26.3           | 1178.83               |
|         | 12/31/96 | 1205.13           | 26.32          | 1178.81               |
|         | 01/09/97 | 1205.13           | 22.48          | 1182.65               |
|         | 02/17/97 | 1205.13           | 21.05          | 1184.08               |
|         | 03/21/97 | 1205.13           | 21.72          | 1183.41               |
|         | 04/01/97 | 1205.13           | 20.98          | 1184.15               |
|         | 04/28/97 | 1205.13           | 22.09          | 1183.04               |
|         | 06/30/97 | 1205.13           | 22.45          | 1182.68               |
|         | 07/29/97 | 1205.13           | 22.72          | 1182.41               |
|         | 08/25/97 | 1205.13           | 21.02          | 1184.11               |
|         | 09/30/97 | 1205.13           | 22.19          | 1182.94               |
|         | 10/17/97 | 1205.13           | 22.9           | 1182.23               |
|         | 11/29/97 | 1205.13           | 25.6           | 1179.53               |
|         | 12/10/97 | 1205.13           | 25.74          | 1179.39               |
|         | 01/30/98 | 1205.13           | 25.45          | 1179.68               |
|         | 04/14/98 | 1205.13           | 23.78          | 1181.35               |
|         | 07/28/98 | 1205.13           | 26             | 1179.13               |
|         | 10/12/98 | 1205.13           | 25.92          | 1179.21               |
|         | 12/03/98 | 1205.13           | 26.67          | 1178.46               |
|         | 04/12/99 | 1205.13           | 27.69          | 1177.44               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP13-D  | 07/16/99 | 1205.13           | 28.67          | 1176.46               |
|         | 12/09/99 | 1205.13           | 28.8           | 1176.33               |
|         | 12/09/99 | 1205.13           | 28.8           | 1176.33               |
|         | 02/08/00 | 1205.13           | 28.39          | 1176.74               |
|         | 04/06/00 | 1205.13           | 29.92          | 1175.21               |
|         | 08/16/00 | 1205.13           | 29.68          | 1175.45               |
|         | 10/05/00 | 1205.13           | 29.78          | 1175.35               |
|         | 11/14/00 | 1205.13           | 28.44          | 1176.69               |
| MP16-A  | 01/10/95 | 1193.03           | 35.3           | 1157.73               |
|         | 02/27/95 | 1193.03           | 35.45          | 1157.58               |
|         | 03/14/95 | 1193.03           | 36.15          | 1156.88               |
|         | 04/06/95 | 1193.03           | 35.5           | 1157.53               |
|         | 05/25/95 | 1193.03           | 35.89          | 1157.14               |
|         | 06/15/95 | 1193.03           | 35.93          | 1157.1                |
|         | 07/07/95 | 1193.03           | 35.98          | 1157.05               |
|         | 07/27/95 | 1193.03           | 36.3           | 1156.73               |
|         | 08/17/95 | 1193.03           | 35.98          | 1157.05               |
|         | 09/14/95 | 1193.03           | 35.89          | 1157.14               |
|         | 10/17/95 | 1193.03           | 35.9           | 1157.13               |
|         | 12/21/95 | 1193.03           | 35.94          | 1157.09               |
|         | 01/19/96 | 1193.03           | 34.4           | 1158.63               |
|         | 02/28/96 | 1193.03           | 34.4           | 1158.63               |
|         | 03/19/96 | 1193.03           | 35.53          | 1157.5                |
|         | 04/11/96 | 1193.03           | 34.39          | 1158.64               |
|         | 05/30/96 | 1193.03           | 34.93          | 1158.1                |
|         | 06/18/96 | 1193.03           | 34.12          | 1158.91               |
|         | 07/02/96 | 1193.03           | 33.3           | 1159.73               |
|         | 08/14/96 | 1193.03           | 34.41          | 1158.62               |
|         | 09/27/96 | 1193.03           | 34.43          | 1158.6                |
|         | 10/07/96 | 1193.03           | 33.32          | 1159.71               |
|         | 11/06/96 | 1193.03           | 33.36          | 1159.67               |
|         | 12/31/96 | 1193.03           | 33.33          | 1159.7                |
|         | 01/09/97 | 1193.03           | 34.85          | 1158.18               |
|         | 02/17/97 | 1193.03           | 36.25          | 1156.78               |
|         | 03/21/97 | 1193.03           | 34.85          | 1158.18               |
|         | 04/01/97 | 1193.03           | 35.88          | 1157.15               |
|         | 06/30/97 | 1193.03           | 34.6           | 1158.43               |
|         | 07/28/97 | 1193.03           | 33.79          | 1159.24               |
|         | 12/30/97 | 1193.03           | 32.9           | 1160.13               |
|         | 01/29/98 | 1193.03           | 34.33          | 1158.7                |
|         | 04/14/98 | 1193.03           | 32.92          | 1160.11               |
|         | 07/30/98 | 1193.03           | 32.18          | 1160.85               |
|         | 12/01/98 | 1193.03           | 35.23          | 1157.8                |
|         | 04/09/99 | 1193.03           | 33.3           | 1159.73               |
|         | 07/15/99 | 1193.03           | 35.56          | 1157.47               |
|         | 10/12/99 | 1193.03           | 33.63          | 1159.4                |
|         | 02/08/00 | 1193.03           | 35.43          | 1157.6                |
|         | 04/05/00 | 1193.03           | 34.34          | 1158.69               |
|         | 08/09/00 | 1193.03           | 33.31          | 1159.72               |
|         | 10/09/00 | 1193.03           | 35.36          | 1157.67               |
| MP16-B  | 03/14/95 | 1193.03           | 34.82          | 1158.21               |
|         | 04/06/95 | 1193.03           | 34.75          | 1158.28               |
|         | 04/25/95 | 1193.03           | 35.4           | 1157.63               |
|         | 05/25/95 | 1193.03           | 35             | 1158.03               |
|         | 06/15/95 | 1193.03           | 35.12          | 1157.91               |
|         | 07/07/95 | 1193.03           | 35.11          | 1157.92               |
|         | 08/17/95 | 1193.03           | 35.1           | 1157.93               |
|         | 09/14/95 | 1193.03           | 35.02          | 1158.01               |
|         | 10/17/95 | 1193.03           | 34.99          | 1158.04               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP16-B  | 11/01/95 | 1193.03           | 36.3           | 1156.73               |
|         | 12/21/95 | 1193.03           | 35.01          | 1158.02               |
|         | 01/19/96 | 1193.03           | 34.11          | 1158.92               |
|         | 02/28/96 | 1193.03           | 34.11          | 1158.92               |
|         | 03/19/96 | 1193.03           | 45.4           | 1147.63               |
|         | 04/11/96 | 1193.03           | 34.07          | 1158.96               |
|         | 05/07/96 | 1193.03           | 45             | 1148.03               |
|         | 05/30/96 | 1193.03           | 34.2           | 1158.83               |
|         | 06/18/96 | 1193.03           | 33.89          | 1159.14               |
|         | 07/02/96 | 1193.03           | 33.1           | 1159.93               |
|         | 08/14/96 | 1193.03           | 34.18          | 1158.85               |
|         | 09/27/96 | 1193.03           | 34.2           | 1158.83               |
|         | 10/07/96 | 1193.03           | 33.1           | 1159.93               |
|         | 11/06/96 | 1193.03           | 34.98          | 1158.05               |
|         | 12/31/96 | 1193.03           | 34.29          | 1158.74               |
|         | 01/09/97 | 1193.03           | 34.98          | 1158.05               |
|         | 02/17/97 | 1193.03           | 36.9           | 1156.13               |
|         | 03/21/97 | 1193.03           | 34.96          | 1158.07               |
|         | 04/01/97 | 1193.03           | 34.45          | 1158.58               |
|         | 04/23/97 | 1193.03           | 38.12          | 1154.91               |
|         | 06/30/97 | 1193.03           | 34.71          | 1158.32               |
|         | 07/28/97 | 1193.03           | 32.18          | 1160.85               |
|         | 08/25/97 | 1193.03           | 31.33          | 1161.7                |
|         | 09/30/97 | 1193.03           | 31.57          | 1161.46               |
|         | 10/09/97 | 1193.03           | 32.15          | 1160.88               |
|         | 11/29/97 | 1193.03           | 33.8           | 1159.23               |
|         | 12/11/97 | 1193.03           | 33.58          | 1159.45               |
|         | 01/29/98 | 1193.03           | 32.83          | 1160.2                |
|         | 04/14/98 | 1193.03           | 31.75          | 1161.28               |
|         | 07/30/98 | 1193.03           | 31.79          | 1161.24               |
|         | 11/24/98 | 1193.03           | 30.19          | 1162.84               |
|         | 12/01/98 | 1193.03           | 34.36          | 1158.67               |
|         | 04/09/99 | 1193.03           | 34.56          | 1158.47               |
|         | 07/15/99 | 1193.03           | 34.9           | 1158.13               |
|         | 10/12/99 | 1193.03           | 33             | 1160.03               |
|         | 12/06/99 | 1193.03           | 33             | 1160.03               |
|         | 02/08/00 | 1193.03           | 34.67          | 1158.36               |
|         | 04/05/00 | 1193.03           | 35.1           | 1157.93               |
|         | 08/09/00 | 1193.03           | 32.22          | 1160.81               |
|         | 10/09/00 | 1193.03           | 33.83          | 1159.2                |
|         | 11/08/00 | 1193.03           | 30.54          | 1162.49               |
| MP16-C  | 03/14/95 | 1193.03           | 32.1           | 1160.93               |
|         | 04/06/95 | 1193.03           | 34.3           | 1158.73               |
|         | 05/25/95 | 1193.03           | 34.35          | 1158.68               |
|         | 06/15/95 | 1193.03           | 34.5           | 1158.53               |
|         | 07/07/95 | 1193.03           | 34.53          | 1158.5                |
|         | 08/17/95 | 1193.03           | 34.55          | 1158.48               |
|         | 09/14/95 | 1193.03           | 34.39          | 1158.64               |
|         | 10/17/95 | 1193.03           | 34.35          | 1158.68               |
|         | 12/21/95 | 1193.03           | 34.38          | 1158.65               |
|         | 01/19/96 | 1193.03           | 35.77          | 1157.26               |
|         | 02/28/96 | 1193.03           | 35.77          | 1157.26               |
|         | 03/19/96 | 1193.03           | 36.3           | 1156.73               |
|         | 04/11/96 | 1193.03           | 35.3           | 1157.73               |
|         | 05/30/96 | 1193.03           | 35.98          | 1157.05               |
|         | 06/18/96 | 1193.03           | 34.81          | 1158.22               |
|         | 07/02/96 | 1193.03           | 34.26          | 1158.77               |
|         | 08/14/96 | 1193.03           | 35.35          | 1157.68               |
|         | 09/27/96 | 1193.03           | 35.34          | 1157.69               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP16-C  | 10/07/96 | 1193.03           | 34.26          | 1158.77               |
|         | 11/06/96 | 1193.03           | 34.31          | 1158.72               |
|         | 12/31/96 | 1193.03           | 34.42          | 1158.61               |
|         | 01/09/97 | 1193.03           | 38.8           | 1154.23               |
|         | 02/17/97 | 1193.03           | 37.25          | 1155.78               |
|         | 03/21/97 | 1193.03           | 38.81          | 1154.22               |
|         | 04/01/97 | 1193.03           | 37.18          | 1155.85               |
|         | 06/30/97 | 1193.03           | 38.46          | 1154.57               |
|         | 07/28/97 | 1193.03           | 37.13          | 1155.9                |
|         | 08/25/97 | 1193.03           | 34.95          | 1158.08               |
|         | 09/30/97 | 1193.03           | 34.17          | 1158.86               |
|         | 10/09/97 | 1193.03           | 29.86          | 1163.17               |
|         | 12/30/97 | 1193.03           | 36.6           | 1156.43               |
|         | 12/30/97 | 1193.03           | 34.8           | 1158.23               |
|         | 01/29/98 | 1193.03           | 35.18          | 1157.85               |
|         | 04/14/98 | 1193.03           | 33.33          | 1159.7                |
|         | 07/30/98 | 1193.03           | 35.2           | 1157.83               |
|         | 12/01/98 | 1193.03           | 37.22          | 1155.81               |
|         | 04/09/99 | 1193.03           | 38.52          | 1154.51               |
|         | 07/15/99 | 1193.03           | 36.09          | 1156.94               |
|         | 10/12/99 | 1193.03           | 36.2           | 1156.83               |
|         | 02/08/00 | 1193.03           | 39.2           | 1153.83               |
|         | 04/05/00 | 1193.03           | 38.37          | 1154.66               |
|         | 08/09/00 | 1193.03           | 37.1           | 1155.93               |
|         | 10/09/00 | 1193.03           | 37.02          | 1156.01               |
| MP16-D  | 03/14/95 | 1193.03           | 32.08          | 1160.95               |
|         | 04/06/95 | 1193.03           | 29.03          | 1164                  |
|         | 04/25/95 | 1193.03           | 33.13          | 1159.9                |
|         | 05/25/95 | 1193.03           | 30.3           | 1162.73               |
|         | 06/15/95 | 1193.03           | 30.45          | 1162.58               |
|         | 07/07/95 | 1193.03           | 30.6           | 1162.43               |
|         | 08/17/95 | 1193.03           | 30.67          | 1162.36               |
|         | 09/14/95 | 1193.03           | 30.38          | 1162.65               |
|         | 10/17/95 | 1193.03           | 31.4           | 1161.63               |
|         | 11/01/95 | 1193.03           | 34.15          | 1158.88               |
|         | 12/21/95 | 1193.03           | 32.3           | 1160.73               |
|         | 01/19/96 | 1193.03           | 34.62          | 1158.41               |
|         | 02/28/96 | 1193.03           | 34.62          | 1158.41               |
|         | 03/19/96 | 1193.03           | 35.69          | 1157.34               |
|         | 04/11/96 | 1193.03           | 34.53          | 1158.5                |
|         | 04/26/96 | 1193.03           | 36             | 1157.03               |
|         | 05/30/96 | 1193.03           | 35.01          | 1158.02               |
|         | 06/18/96 | 1193.03           | 34.46          | 1158.57               |
|         | 07/02/96 | 1193.03           | 33.68          | 1159.35               |
|         | 08/14/96 | 1193.03           | 34.56          | 1158.47               |
|         | 09/27/96 | 1193.03           | 34.53          | 1158.5                |
|         | 10/07/96 | 1193.03           | 33.7           | 1159.33               |
|         | 11/01/96 | 1193.03           | 36.84          | 1156.19               |
|         | 12/31/96 | 1193.03           | 36.86          | 1156.17               |
|         | 01/09/97 | 1193.03           | 37.25          | 1155.78               |
|         | 02/17/97 | 1193.03           | 37.55          | 1155.48               |
|         | 03/21/97 | 1193.03           | 37.27          | 1155.76               |
|         | 04/01/97 | 1193.03           | 35.89          | 1157.14               |
|         | 04/23/97 | 1193.03           | 36.3           | 1156.73               |
|         | 04/29/97 | 1193.03           | 39.15          | 1153.88               |
|         | 06/30/97 | 1193.03           | 38.32          | 1154.71               |
|         | 07/28/97 | 1193.03           | 36.98          | 1156.05               |
|         | 08/25/97 | 1193.03           | 33.77          | 1159.26               |
|         | 09/30/97 | 1193.03           | 31.01          | 1162.02               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP16-D  | 10/09/97 | 1193.03           | 31.5           | 1161.53               |
|         | 11/29/97 | 1193.03           | 33.6           | 1159.43               |
|         | 12/11/97 | 1193.03           | 33.72          | 1159.31               |
|         | 01/29/98 | 1193.03           | 34.92          | 1158.11               |
|         | 04/14/98 | 1193.03           | 31.95          | 1161.08               |
|         | 07/30/98 | 1193.03           | 33.96          | 1159.07               |
|         | 12/01/98 | 1193.03           | 37.12          | 1155.91               |
|         | 12/11/98 | 1193.03           | 33.96          | 1159.07               |
|         | 04/09/99 | 1193.03           | 38.47          | 1154.56               |
|         | 07/15/99 | 1193.03           | 33.3           | 1159.73               |
|         | 10/12/99 | 1193.03           | 35.46          | 1157.57               |
|         | 12/07/99 | 1193.03           | 35.46          | 1157.57               |
|         | 02/08/00 | 1193.03           | 39.19          | 1153.84               |
|         | 04/05/00 | 1193.03           | 38.09          | 1154.94               |
|         | 08/09/00 | 1193.03           | 35.57          | 1157.46               |
|         | 10/09/00 | 1193.03           | 32.5           | 1160.53               |
|         | 11/08/00 | 1193.03           | 32.5           | 1160.53               |
| MP20-A  | 01/10/95 | 1211.83           | 25.2           | 1186.63               |
|         | 02/03/95 | 1211.83           | 24.82          | 1187.01               |
|         | 03/14/95 | 1211.83           | 25             | 1186.83               |
|         | 04/06/95 | 1211.83           | 25.28          | 1186.55               |
|         | 04/18/95 | 1211.83           | 25.45          | 1186.38               |
|         | 07/07/95 | 1211.83           | 26             | 1185.83               |
|         | 08/29/95 | 1211.83           | 26             | 1185.83               |
|         | 09/14/95 | 1211.83           | 26.06          | 1185.77               |
|         | 10/16/95 | 1211.83           | 25.5           | 1186.33               |
|         | 12/21/95 | 1211.83           | 26.11          | 1185.72               |
|         | 01/19/96 | 1211.83           | 26.36          | 1185.47               |
|         | 02/28/96 | 1211.83           | 26.36          | 1185.47               |
|         | 03/18/96 | 1211.83           | 26.59          | 1185.24               |
|         | 04/10/96 | 1211.83           | 26.29          | 1185.54               |
|         | 06/24/96 | 1211.83           | 26.05          | 1185.78               |
|         | 07/03/96 | 1211.83           | 26.1           | 1185.73               |
|         | 10/08/96 | 1211.83           | 26.16          | 1185.67               |
|         | 11/07/96 | 1211.83           | 26.16          | 1185.67               |
|         | 01/09/97 | 1211.83           | 27.11          | 1184.72               |
|         | 04/01/97 | 1211.83           | 25.92          | 1185.91               |
|         | 07/24/97 | 1211.83           | 27.47          | 1184.36               |
|         | 10/17/97 | 1211.83           | 26.58          | 1185.25               |
|         | 12/17/97 | 1211.83           | 28.23          | 1183.6                |
|         | 01/29/98 | 1211.83           | 27.6           | 1184.23               |
|         | 04/14/98 | 1211.83           | 26.47          | 1185.36               |
|         | 07/30/98 | 1211.83           | 25.01          | 1186.82               |
|         | 10/13/98 | 1211.83           | 26.23          | 1185.6                |
|         | 11/17/98 | 1211.83           | 26.04          | 1185.79               |
|         | 04/09/99 | 1211.83           | 27.68          | 1184.15               |
|         | 07/16/99 | 1211.83           | 28.07          | 1183.76               |
|         | 12/07/99 | 1211.83           | 27.4           | 1184.43               |
|         | 12/07/99 | 1211.83           | 27.4           | 1184.43               |
|         | 02/08/00 | 1211.83           | 28.02          | 1183.81               |
|         | 04/05/00 | 1211.83           | 29.63          | 1182.2                |
|         | 08/16/00 | 1211.83           | 29.97          | 1181.86               |
|         | 10/06/00 | 1211.83           | 29.95          | 1181.88               |
|         | 11/09/00 | 1211.83           | 27.71          | 1184.12               |
| MP20-B  | 04/18/95 | 1211.74           | 24.09          | 1187.65               |
|         | 07/07/95 | 1211.74           | 24.48          | 1187.26               |
|         | 08/29/95 | 1211.74           | 24.49          | 1187.25               |
|         | 09/14/95 | 1211.74           | 24.53          | 1187.21               |
|         | 10/16/95 | 1211.74           | 24.09          | 1187.65               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP20-B  | 12/21/95 | 1211.74           | 24.99          | 1186.75               |
|         | 01/19/96 | 1211.74           | 25.36          | 1186.38               |
|         | 02/28/96 | 1211.74           | 25.36          | 1186.38               |
|         | 03/19/96 | 1211.74           | 29.26          | 1182.48               |
|         | 04/10/96 | 1211.74           | 25.3           | 1186.44               |
|         | 06/24/96 | 1211.74           | 25.49          | 1186.25               |
|         | 07/03/96 | 1211.74           | 25.06          | 1186.68               |
|         | 10/08/96 | 1211.74           | 25.1           | 1186.64               |
|         | 10/21/96 | 1211.74           | 26.05          | 1185.69               |
|         | 11/07/96 | 1211.74           | 26.05          | 1185.69               |
|         | 01/10/97 | 1211.74           | 25.95          | 1185.79               |
|         | 04/01/97 | 1211.74           | 26             | 1185.74               |
|         | 07/24/97 | 1211.74           | 25.99          | 1185.75               |
|         | 10/17/97 | 1211.74           | 24.88          | 1186.86               |
|         | 12/19/97 | 1211.74           | 27.2           | 1184.54               |
|         | 01/29/98 | 1211.74           | 27.48          | 1184.26               |
|         | 04/14/98 | 1211.74           | 24.9           | 1186.84               |
|         | 07/30/98 | 1211.74           | 25.08          | 1186.66               |
|         | 10/13/98 | 1211.74           | 26.04          | 1185.7                |
|         | 12/02/98 | 1211.74           | 23.87          | 1187.87               |
|         | 04/09/99 | 1211.74           | 26.76          | 1184.98               |
|         | 07/16/99 | 1211.74           | 26.77          | 1184.97               |
|         | 12/08/99 | 1211.74           | 26             | 1185.74               |
|         | 02/08/00 | 1211.74           | 28.47          | 1183.27               |
|         | 04/05/00 | 1211.74           | 26.69          | 1185.05               |
|         | 08/16/00 | 1211.74           | 29.75          | 1181.99               |
|         | 10/06/00 | 1211.74           | 29.69          | 1182.05               |
|         | 11/09/00 | 1211.74           | 26.66          | 1185.08               |
| MP20-C  | 07/07/95 | 1211.74           | 24.86          | 1186.88               |
|         | 08/29/95 | 1211.74           | 24.88          | 1186.86               |
|         | 09/14/95 | 1211.74           | 24.86          | 1186.88               |
|         | 10/16/95 | 1211.74           | 23.2           | 1188.54               |
|         | 12/21/95 | 1211.74           | 25.22          | 1186.52               |
|         | 01/19/96 | 1211.74           | 25.43          | 1186.31               |
|         | 02/28/96 | 1211.74           | 25.43          | 1186.31               |
|         | 03/19/96 | 1211.74           | 26.4           | 1185.34               |
|         | 04/10/96 | 1211.74           | 25.42          | 1186.32               |
|         | 06/24/96 | 1211.74           | 25.8           | 1185.94               |
| MP20-D  | 01/10/97 | 1211.74           | 27.6           | 1184.14               |
|         | 07/07/95 | 1211.74           | 24.93          | 1186.81               |
|         | 08/29/95 | 1211.74           | 24.92          | 1186.82               |
|         | 09/14/95 | 1211.74           | 25.01          | 1186.73               |
|         | 10/16/95 | 1211.74           | 23.91          | 1187.83               |
|         | 12/21/95 | 1211.74           | 23.78          | 1187.96               |
|         | 01/19/96 | 1211.74           | 24.2           | 1187.54               |
|         | 02/28/96 | 1211.74           | 24.2           | 1187.54               |
|         | 03/18/96 | 1211.74           | 24.1           | 1187.64               |
|         | 04/10/96 | 1211.74           | 24.17          | 1187.57               |
| MP25-A  | 06/24/96 | 1211.74           | 24.31          | 1187.43               |
|         | 01/10/97 | 1211.74           | 26.45          | 1185.29               |
|         | 04/06/95 | 1224.34           | 37.6           | 1186.74               |
|         | 04/20/95 | 1224.34           | 39.45          | 1184.89               |
|         | 10/17/95 | 1224.34           | 37.68          | 1186.66               |
|         | 12/14/95 | 1224.34           | -999           | Dry                   |
|         | 01/31/96 | 1224.34           | 40             | 1184.34               |
|         | 03/19/96 | 1224.34           | 38.46          | 1185.88               |
|         | 04/11/96 | 1224.34           | 39.97          | 1184.37               |
|         | 04/17/96 | 1224.34           | 38.63          | 1185.71               |
| MP25-A  | 05/18/96 | 1224.34           | 38.67          | 1185.67               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP25-A  | 06/01/96 | 1224.34           | 38.73          | 1185.61               |
|         | 07/02/96 | 1224.34           | 38.8           | 1185.54               |
|         | 07/03/96 | 1224.34           | 39.57          | 1184.77               |
|         | 08/09/96 | 1224.34           | 38.83          | 1185.51               |
|         | 09/10/96 | 1224.34           | 38.83          | 1185.51               |
|         | 10/04/96 | 1224.34           | 38.77          | 1185.57               |
|         | 10/08/96 | 1224.34           | 39.57          | 1184.77               |
|         | 11/27/96 | 1224.34           | 38.26          | 1186.08               |
|         | 12/13/96 | 1224.34           | 38.4           | 1185.94               |
|         | 01/09/97 | 1224.34           | 37.99          | 1186.35               |
|         | 01/10/97 | 1224.34           | -999           | Dry                   |
|         | 02/12/97 | 1224.34           | 38.63          | 1185.71               |
|         | 03/14/97 | 1224.34           | 38.87          | 1185.47               |
|         | 04/01/97 | 1224.34           | -999           | Dry                   |
|         | 04/10/97 | 1224.34           | 39.02          | 1185.32               |
|         | 05/08/97 | 1224.34           | 39.08          | 1185.26               |
|         | 06/05/97 | 1224.34           | 39.14          | 1185.2                |
|         | 07/09/97 | 1224.34           | 39.2           | 1185.14               |
|         | 07/25/97 | 1224.34           | 36.86          | 1187.48               |
|         | 08/15/97 | 1224.34           | 37.58          | 1186.76               |
|         | 09/11/97 | 1224.34           | 38.36          | 1185.98               |
|         | 10/13/97 | 1224.34           | 38.51          | 1185.83               |
|         | 10/17/97 | 1224.34           | 38.07          | 1186.27               |
|         | 11/15/97 | 1224.34           | 37.61          | 1186.73               |
|         | 12/05/97 | 1224.34           | 37.78          | 1186.56               |
|         | 01/10/98 | 1224.34           | 37.94          | 1186.4                |
|         | 01/29/98 | 1224.34           | 40.02          | 1184.32               |
|         | 02/27/98 | 1224.34           | 38.08          | 1186.26               |
|         | 03/30/98 | 1224.34           | 38.11          | 1186.23               |
|         | 04/14/98 | 1224.34           | 38.92          | 1185.42               |
|         | 07/30/98 | 1224.34           | 38.58          | 1185.76               |
|         | 10/13/98 | 1224.34           | 38.92          | 1185.42               |
|         | 04/09/99 | 1224.34           | 39.82          | 1184.52               |
|         | 07/16/99 | 1224.34           | 39.61          | 1184.73               |
|         | 12/16/99 | 1224.34           | 37.67          | 1186.67               |
|         | 02/09/00 | 1224.34           | 39.43          | 1184.91               |
|         | 04/05/00 | 1224.34           | 38.05          | 1186.29               |
|         | 08/16/00 | 1224.34           | 40.19          | 1184.15               |
|         | 10/09/00 | 1224.34           | 37.75          | 1186.59               |
| MP25-B  | 04/06/95 | 1224.34           | 40.58          | 1183.76               |
|         | 04/20/95 | 1224.34           | 39.15          | 1185.19               |
|         | 10/17/95 | 1224.34           | 39.98          | 1184.36               |
|         | 11/22/95 | 1224.34           | 38.15          | 1186.19               |
|         | 01/31/96 | 1224.34           | 38.57          | 1185.77               |
|         | 04/11/96 | 1224.34           | 38.52          | 1185.82               |
|         | 07/03/96 | 1224.34           | 38.06          | 1186.28               |
|         | 10/08/96 | 1224.34           | 38.05          | 1186.29               |
|         | 10/21/96 | 1224.34           | 39.9           | 1184.44               |
|         | 01/10/97 | 1224.34           | 40.9           | 1183.44               |
|         | 04/01/97 | 1224.34           | 39.5           | 1184.84               |
|         | 07/25/97 | 1224.34           | 40.08          | 1184.26               |
|         | 10/17/97 | 1224.34           | 37.74          | 1186.6                |
|         | 12/17/97 | 1224.34           | 39.77          | 1184.57               |
|         | 01/29/98 | 1224.34           | 38.5           | 1185.84               |
|         | 02/09/00 | 1224.34           | 39.69          | 1184.65               |
|         | 04/05/00 | 1224.34           | 40.25          | 1184.09               |
|         | 08/16/00 | 1224.34           | 40.37          | 1183.97               |
|         | 10/09/00 | 1224.34           | 40.53          | 1183.81               |
| MP25-C  | 10/17/95 | 1224.34           | 38.65          | 1185.69               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP25-C  | 01/31/96 | 1224.34           | 37.55          | 1186.79               |
|         | 04/11/96 | 1224.34           | 37.63          | 1186.71               |
|         | 01/10/97 | 1224.34           | 38.05          | 1186.29               |
| MP25-D  | 04/06/95 | 1224.34           | 37.8           | 1186.54               |
|         | 04/20/95 | 1224.34           | 36.3           | 1188.04               |
|         | 10/17/95 | 1224.34           | 37.86          | 1186.48               |
|         | 01/31/96 | 1224.34           | 35.88          | 1188.46               |
|         | 04/11/96 | 1224.34           | 36.03          | 1188.31               |
|         | 07/03/96 | 1224.34           | 35.8           | 1188.54               |
|         | 10/08/96 | 1224.34           | 35.77          | 1188.57               |
|         | 12/30/96 | 1224.34           | 37.9           | 1186.44               |
|         | 01/10/97 | 1224.34           | 35.95          | 1188.39               |
|         | 04/01/97 | 1224.34           | 37.91          | 1186.43               |
|         | 07/25/97 | 1224.34           | 38.79          | 1185.55               |
|         | 10/17/97 | 1224.34           | 37             | 1187.34               |
|         | 12/18/97 | 1224.34           | 39.9           | 1184.44               |
|         | 01/29/98 | 1224.34           | 38.52          | 1185.82               |
|         | 04/14/98 | 1224.34           | 38.2           | 1186.14               |
|         | 07/30/98 | 1224.34           | 39.13          | 1185.21               |
|         | 10/13/98 | 1224.34           | 37.87          | 1186.47               |
|         | 12/21/98 | 1224.34           | 37.1           | 1187.24               |
|         | 04/09/99 | 1224.34           | 39.15          | 1185.19               |
|         | 07/16/99 | 1224.34           | 39.48          | 1184.86               |
|         | 12/16/99 | 1224.34           | 39.5           | 1184.84               |
|         | 02/09/00 | 1224.34           | 39.42          | 1184.92               |
|         | 04/05/00 | 1224.34           | 37.51          | 1186.83               |
|         | 08/16/00 | 1224.34           | 40.23          | 1184.11               |
|         | 10/09/00 | 1224.34           | 40.55          | 1183.79               |
|         | 11/17/00 | 1224.34           | 40.07          | 1184.27               |
| MP28-A  | 04/06/95 | 1217.61           | 33.34          | 1184.27               |
|         | 04/24/95 | 1217.61           | 34.4           | 1183.21               |
|         | 07/12/95 | 1217.61           | 33.17          | 1184.44               |
|         | 07/13/95 | 1217.61           | 33.17          | 1184.44               |
|         | 10/17/95 | 1217.61           | 33.41          | 1184.2                |
|         | 11/02/95 | 1217.61           | 34.1           | 1183.51               |
|         | 12/14/95 | 1217.61           | 34.05          | 1183.56               |
|         | 01/31/96 | 1217.61           | 35.63          | 1181.98               |
|         | 03/19/96 | 1217.61           | 34.78          | 1182.83               |
|         | 04/17/96 | 1217.61           | 35.59          | 1182.02               |
|         | 04/17/96 | 1217.61           | 34.95          | 1182.66               |
|         | 05/18/96 | 1217.61           | 35.14          | 1182.47               |
|         | 06/01/96 | 1217.61           | 35.19          | 1182.42               |
|         | 07/02/96 | 1217.61           | 35.31          | 1182.3                |
|         | 07/03/96 | 1217.61           | 35.2           | 1182.41               |
|         | 08/09/96 | 1217.61           | 35.19          | 1182.42               |
|         | 09/10/96 | 1217.61           | 35.28          | 1182.33               |
|         | 10/04/96 | 1217.61           | 35.04          | 1182.57               |
|         | 10/08/96 | 1217.61           | 35.23          | 1182.38               |
|         | 11/27/96 | 1217.61           | 35.35          | 1182.26               |
|         | 12/13/96 | 1217.61           | 35.35          | 1182.26               |
|         | 01/09/97 | 1217.61           | 35.46          | 1182.15               |
|         | 01/10/97 | 1217.61           | -999           | Dry                   |
|         | 02/12/97 | 1217.61           | 35.65          | 1181.96               |
|         | 03/14/97 | 1217.61           | 35.96          | 1181.65               |
|         | 04/01/97 | 1217.61           | 36.29          | 1181.32               |
|         | 04/10/97 | 1217.61           | 36.08          | 1181.53               |
|         | 05/08/97 | 1217.61           | 36.17          | 1181.44               |
|         | 06/05/97 | 1217.61           | 36.13          | 1181.48               |
|         | 07/09/97 | 1217.61           | 36.01          | 1181.6                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP28-A  | 08/15/97 | 1217.61           | 36.16          | 1181.45               |
|         | 09/11/97 | 1217.61           | 36.23          | 1181.38               |
|         | 10/13/97 | 1217.61           | 36.37          | 1181.24               |
|         | 10/17/97 | 1217.61           | 36.86          | 1180.75               |
|         | 11/15/97 | 1217.61           | 36.17          | 1181.44               |
|         | 12/05/97 | 1217.61           | 36.2           | 1181.41               |
|         | 12/17/97 | 1217.61           | 38.05          | 1179.56               |
|         | 01/10/98 | 1217.61           | 36.33          | 1181.28               |
|         | 01/29/98 | 1217.61           | 37.08          | 1180.53               |
|         | 02/27/98 | 1217.61           | 36.47          | 1181.14               |
|         | 03/30/98 | 1217.61           | 36.6           | 1181.01               |
|         | 04/14/98 | 1217.61           | 36.46          | 1181.15               |
|         | 06/06/98 | 1217.61           | 36.16          | 1181.45               |
|         | 07/30/98 | 1217.61           | 36.61          | 1181                  |
|         | 10/13/98 | 1217.61           | 36.63          | 1180.98               |
|         | 11/18/98 | 1217.61           | 36.67          | 1180.94               |
|         | 04/09/99 | 1217.61           | 37.91          | 1179.7                |
|         | 07/16/99 | 1217.61           | 38.12          | 1179.49               |
|         | 12/07/99 | 1217.61           | 37.87          | 1179.74               |
|         | 12/09/99 | 1217.61           | 37.87          | 1179.74               |
|         | 02/09/00 | 1217.61           | 39.51          | 1178.1                |
|         | 04/05/00 | 1217.61           | 38.75          | 1178.86               |
|         | 08/16/00 | 1217.61           | 39.06          | 1178.55               |
|         | 10/09/00 | 1217.61           | 39.12          | 1178.49               |
|         | 11/14/00 | 1217.61           | 39.96          | 1177.65               |
| MP28-B  | 04/06/95 | 1217.61           | 34.98          | 1182.63               |
|         | 04/24/95 | 1217.61           | 35.03          | 1182.58               |
|         | 07/13/95 | 1217.61           | 34.31          | 1183.3                |
|         | 10/17/95 | 1217.61           | 35.03          | 1182.58               |
|         | 01/31/96 | 1217.61           | 35.9           | 1181.71               |
|         | 04/17/96 | 1217.61           | 35.81          | 1181.8                |
|         | 07/03/96 | 1217.61           | 35.6           | 1182.01               |
|         | 10/08/96 | 1217.61           | 36.64          | 1180.97               |
|         | 10/21/96 | 1217.61           | 36.9           | 1180.71               |
|         | 01/10/97 | 1217.61           | 37.2           | 1180.41               |
|         | 04/01/97 | 1217.61           | 36.83          | 1180.78               |
|         | 10/17/97 | 1217.61           | 37.53          | 1180.08               |
|         | 12/10/97 | 1217.61           | 37.94          | 1179.67               |
|         | 01/29/98 | 1217.61           | 37.44          | 1180.17               |
|         | 02/09/00 | 1217.61           | 40.15          | 1177.46               |
|         | 04/05/00 | 1217.61           | 41.14          | 1176.47               |
|         | 08/16/00 | 1217.61           | 41             | 1176.61               |
|         | 10/09/00 | 1217.61           | 41.38          | 1176.23               |
| MP28-C  | 04/06/95 | 1217.61           | 35.6           | 1182.01               |
|         | 07/13/95 | 1217.61           | 35             | 1182.61               |
|         | 10/17/95 | 1217.61           | 35.65          | 1181.96               |
|         | 01/31/96 | 1217.61           | 36.01          | 1181.6                |
|         | 04/17/96 | 1217.61           | 36.19          | 1181.42               |
|         | 01/10/97 | 1217.61           | 36.8           | 1180.81               |
| MP28-D  | 04/06/95 | 1217.61           | 36             | 1181.61               |
|         | 07/13/95 | 1217.61           | 34.95          | 1182.66               |
|         | 10/17/95 | 1217.61           | 35.98          | 1181.63               |
|         | 01/31/96 | 1217.61           | 36.91          | 1180.7                |
|         | 04/17/96 | 1217.61           | 36.67          | 1180.94               |
|         | 07/03/96 | 1217.61           | 36.4           | 1181.21               |
|         | 10/08/96 | 1217.61           | 36.41          | 1181.2                |
|         | 01/10/97 | 1217.61           | 36.42          | 1181.19               |
|         | 04/01/97 | 1217.61           | 36.55          | 1181.06               |
|         | 10/17/97 | 1217.61           | 38.33          | 1179.28               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP28-D  | 01/29/98 | 1217.61           | 37.28          | 1180.33               |
|         | 02/09/00 | 1217.61           | 40.14          | 1177.47               |
|         | 04/05/00 | 1217.61           | 39.62          | 1177.99               |
|         | 08/16/00 | 1217.61           | 41.08          | 1176.53               |
|         | 10/09/00 | 1217.61           | 41.6           | 1176.01               |
| MP30-A  | 04/06/95 | 1217.2            | 37.8           | 1179.4                |
|         | 07/13/95 | 1217.2            | 38.65          | 1178.55               |
|         | 10/17/95 | 1217.2            | 39.94          | 1177.26               |
|         | 11/02/95 | 1217.2            | 36.96          | 1180.24               |
|         | 12/14/95 | 1217.2            | 38.56          | 1178.64               |
|         | 01/31/96 | 1217.2            | 39.3           | 1177.9                |
|         | 03/19/96 | 1217.2            | 39.19          | 1178.01               |
|         | 04/12/96 | 1217.2            | 38.51          | 1178.69               |
|         | 04/17/96 | 1217.2            | 39.47          | 1177.73               |
|         | 05/18/96 | 1217.2            | 39.67          | 1177.53               |
|         | 06/01/96 | 1217.2            | 39.8           | 1177.4                |
|         | 07/02/96 | 1217.2            | 39.61          | 1177.59               |
|         | 07/03/96 | 1217.2            | 38.1           | 1179.1                |
|         | 08/09/96 | 1217.2            | 39.82          | 1177.38               |
|         | 09/10/96 | 1217.2            | 39.91          | 1177.29               |
|         | 10/04/96 | 1217.2            | 40.01          | 1177.19               |
|         | 10/08/96 | 1217.2            | 38.12          | 1179.08               |
|         | 11/27/96 | 1217.2            | 39.78          | 1177.42               |
|         | 12/13/96 | 1217.2            | 39.7           | 1177.5                |
|         | 01/09/97 | 1217.2            | 39.67          | 1177.53               |
|         | 01/10/97 | 1217.2            | 39.91          | 1177.29               |
|         | 02/12/97 | 1217.2            | 40.01          | 1177.19               |
|         | 03/14/97 | 1217.2            | 40.13          | 1177.07               |
|         | 04/01/97 | 1217.2            | 39.38          | 1177.82               |
|         | 04/10/97 | 1217.2            | 40.35          | 1176.85               |
|         | 05/08/97 | 1217.2            | 40.53          | 1176.67               |
|         | 06/05/97 | 1217.2            | 40.55          | 1176.65               |
|         | 07/09/97 | 1217.2            | 40.59          | 1176.61               |
|         | 07/24/97 | 1217.2            | 31.78          | 1185.42               |
|         | 08/15/97 | 1217.2            | 41.54          | 1175.66               |
|         | 09/11/97 | 1217.2            | 41.7           | 1175.5                |
|         | 10/13/97 | 1217.2            | 41.77          | 1175.43               |
|         | 10/17/97 | 1217.2            | 42.14          | 1175.06               |
|         | 11/15/97 | 1217.2            | 41.71          | 1175.49               |
|         | 12/05/97 | 1217.2            | 41.75          | 1175.45               |
|         | 01/10/98 | 1217.2            | 41.78          | 1175.42               |
|         | 01/29/98 | 1217.2            | 41.98          | 1175.22               |
|         | 02/27/98 | 1217.2            | 41.83          | 1175.37               |
|         | 03/30/98 | 1217.2            | 41.86          | 1175.34               |
|         | 04/14/98 | 1217.2            | 41.93          | 1175.27               |
|         | 07/29/98 | 1217.2            | 42.89          | 1174.31               |
|         | 10/13/98 | 1217.2            | 42.55          | 1174.65               |
|         | 04/09/99 | 1217.2            | 43.11          | 1174.09               |
|         | 07/16/99 | 1217.2            | 44.4           | 1172.8                |
|         | 12/14/99 | 1217.2            | 45.46          | 1171.74               |
|         | 02/09/00 | 1217.2            | 45.88          | 1171.32               |
|         | 04/06/00 | 1217.2            | 47.52          | 1169.68               |
|         | 08/04/00 | 1217.2            | 46.75          | 1170.45               |
|         | 10/09/00 | 1217.2            | 47.7           | 1169.5                |
| MP30-B  | 04/06/95 | 1217.2            | 37.7           | 1179.5                |
|         | 05/22/95 | 1217.2            | 38.62          | 1178.58               |
|         | 07/13/95 | 1217.2            | 36.89          | 1180.31               |
|         | 10/17/95 | 1217.2            | 38.65          | 1178.55               |
|         | 11/02/95 | 1217.2            | 39.02          | 1178.18               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP30-B  | 01/31/96 | 1217.2            | 37.43          | 1179.77               |
|         | 04/12/96 | 1217.2            | 38.19          | 1179.01               |
|         | 05/06/96 | 1217.2            | 39.87          | 1177.33               |
|         | 05/07/96 | 1217.2            | 52.6           | 1164.6                |
|         | 07/03/96 | 1217.2            | 38             | 1179.2                |
|         | 10/08/96 | 1217.2            | 37.98          | 1179.22               |
|         | 11/07/96 | 1217.2            | 34.2           | 1183                  |
|         | 01/09/97 | 1217.2            | 30.2           | 1187                  |
|         | 04/01/97 | 1217.2            | 40.23          | 1176.97               |
|         | 04/30/97 | 1217.2            | 40.83          | 1176.37               |
|         | 05/02/97 | 1217.2            | 43.58          | 1173.62               |
|         | 07/24/97 | 1217.2            | 41.2           | 1176                  |
|         | 10/17/97 | 1217.2            | 42.17          | 1175.03               |
|         | 12/15/97 | 1217.2            | 42.7           | 1174.5                |
|         | 01/29/98 | 1217.2            | 41.93          | 1175.27               |
|         | 04/14/98 | 1217.2            | 41.88          | 1175.32               |
|         | 07/29/98 | 1217.2            | 42.98          | 1174.22               |
|         | 10/13/98 | 1217.2            | 42.4           | 1174.8                |
|         | 12/02/98 | 1217.2            | 40.82          | 1176.38               |
|         | 04/09/99 | 1217.2            | 43.04          | 1174.16               |
|         | 07/16/99 | 1217.2            | 44.34          | 1172.86               |
|         | 12/14/99 | 1217.2            | 42             | 1175.2                |
|         | 12/14/99 | 1217.2            | 42             | 1175.2                |
|         | 02/09/00 | 1217.2            | 45.77          | 1171.43               |
|         | 04/06/00 | 1217.2            | 43.56          | 1173.64               |
|         | 08/04/00 | 1217.2            | 47             | 1170.2                |
|         | 10/09/00 | 1217.2            | 47.45          | 1169.75               |
|         | 10/25/00 | 1217.2            | 46.8           | 1170.4                |
| MP30-C  | 04/06/95 | 1217.2            | 37.35          | 1179.85               |
|         | 07/13/95 | 1217.2            | 37.12          | 1180.08               |
|         | 10/17/95 | 1217.2            | 38.15          | 1179.05               |
|         | 01/31/96 | 1217.2            | 38.58          | 1178.62               |
|         | 04/12/96 | 1217.2            | 38.91          | 1178.29               |
| MP30-D  | 01/09/97 | 1217.2            | 31.8           | 1185.4                |
|         | 04/06/95 | 1217.2            | 36.95          | 1180.25               |
|         | 05/22/95 | 1217.2            | 37.9           | 1179.3                |
|         | 07/13/95 | 1217.2            | 36.98          | 1180.22               |
|         | 10/17/95 | 1217.2            | 37.98          | 1179.22               |
|         | 01/31/96 | 1217.2            | 38             | 1179.2                |
|         | 04/12/96 | 1217.2            | 38.14          | 1179.06               |
|         | 07/03/96 | 1217.2            | 37.8           | 1179.4                |
|         | 10/08/96 | 1217.2            | 37.82          | 1179.38               |
|         | 11/07/96 | 1217.2            | 36.2           | 1181                  |
|         | 01/09/97 | 1217.2            | 32             | 1185.2                |
|         | 04/01/97 | 1217.2            | 39.8           | 1177.4                |
|         | 07/24/97 | 1217.2            | 40.6           | 1176.6                |
|         | 10/17/97 | 1217.2            | 41.04          | 1176.16               |
|         | 12/15/97 | 1217.2            | 41.09          | 1176.11               |
|         | 01/29/98 | 1217.2            | 41.14          | 1176.06               |
|         | 04/14/98 | 1217.2            | 40.87          | 1176.33               |
|         | 07/29/98 | 1217.2            | 41.87          | 1175.33               |
|         | 10/13/98 | 1217.2            | 41.34          | 1175.86               |
|         | 12/14/98 | 1217.2            | 41.87          | 1175.33               |
|         | 04/09/99 | 1217.2            | 42.02          | 1175.18               |
|         | 07/16/99 | 1217.2            | 40.37          | 1176.83               |
|         | 12/14/99 | 1217.2            | 37.2           | 1180                  |
|         | 02/09/00 | 1217.2            | 45.77          | 1171.43               |
|         | 04/06/00 | 1217.2            | 41.08          | 1176.12               |
|         | 08/04/00 | 1217.2            | 43.5           | 1173.7                |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP30-D  | 10/09/00 | 1217.2            | 45.38          | 1171.82               |
|         | 11/10/00 | 1217.2            | 44.94          | 1172.26               |
| MP36-A  | 01/11/95 | 1211.47           | 34.24          | 1177.23               |
|         | 02/01/95 | 1211.47           | 34.3           | 1177.17               |
|         | 02/28/95 | 1211.47           | 34.85          | 1176.62               |
|         | 03/27/95 | 1211.47           | 34.26          | 1177.21               |
|         | 04/06/95 | 1211.47           | 34.26          | 1177.21               |
|         | 05/12/95 | 1211.47           | 34.2           | 1177.27               |
|         | 06/16/95 | 1211.47           | 34.23          | 1177.24               |
|         | 07/11/95 | 1211.47           | 34.29          | 1177.18               |
|         | 07/31/95 | 1211.47           | 35.8           | 1175.67               |
|         | 08/29/95 | 1211.47           | 34.3           | 1177.17               |
|         | 09/30/95 | 1211.47           | 34.51          | 1176.96               |
|         | 10/17/95 | 1211.47           | 34.23          | 1177.24               |
|         | 11/17/95 | 1211.47           | 35.65          | 1175.82               |
|         | 12/26/95 | 1211.47           | 34.19          | 1177.28               |
|         | 01/12/96 | 1211.47           | 35.7           | 1175.77               |
|         | 02/09/96 | 1211.47           | 41.5           | 1169.97               |
|         | 02/28/96 | 1211.47           | 41.5           | 1169.97               |
|         | 03/21/96 | 1211.47           | 34.5           | 1176.97               |
|         | 04/09/96 | 1211.47           | 41.36          | 1170.11               |
|         | 05/06/96 | 1211.47           | 35.5           | 1175.97               |
|         | 06/24/96 | 1211.47           | 41.1           | 1170.37               |
|         | 07/02/96 | 1211.47           | 40.48          | 1170.99               |
|         | 07/15/96 | 1211.47           | 36.5           | 1174.97               |
|         | 08/14/96 | 1211.47           | 40.51          | 1170.96               |
|         | 09/30/96 | 1211.47           | 40.54          | 1170.93               |
|         | 10/03/96 | 1211.47           | 40.53          | 1170.94               |
|         | 11/15/96 | 1211.47           | 36.82          | 1174.65               |
|         | 12/31/96 | 1211.47           | 40.6           | 1170.87               |
|         | 01/09/97 | 1211.47           | 36.55          | 1174.92               |
|         | 01/27/97 | 1211.47           | 36             | 1175.47               |
|         | 02/17/97 | 1211.47           | 36.8           | 1174.67               |
|         | 03/21/97 | 1211.47           | 36.81          | 1174.66               |
|         | 04/01/97 | 1211.47           | 35.98          | 1175.49               |
|         | 05/15/97 | 1211.47           | 36.92          | 1174.55               |
|         | 06/11/97 | 1211.47           | 36.92          | 1174.55               |
|         | 06/30/97 | 1211.47           | 37.82          | 1173.65               |
|         | 07/30/97 | 1211.47           | 37             | 1174.47               |
|         | 08/08/97 | 1211.47           | 36.1           | 1175.37               |
|         | 08/25/97 | 1211.47           | 37.78          | 1173.69               |
|         | 09/30/97 | 1211.47           | 37.98          | 1173.49               |
|         | 10/16/97 | 1211.47           | 37.91          | 1173.56               |
|         | 11/29/97 | 1211.47           | 39.56          | 1171.91               |
|         | 12/16/97 | 1211.47           | 39.59          | 1171.88               |
| MP36-B  | 01/11/95 | 1211.47           | 34.24          | 1177.23               |
|         | 02/02/95 | 1211.47           | 34.28          | 1177.19               |
|         | 02/28/95 | 1211.47           | 34.75          | 1176.72               |
|         | 03/27/95 | 1211.47           | 34.02          | 1177.45               |
|         | 04/06/95 | 1211.47           | 34.02          | 1177.45               |
|         | 05/12/95 | 1211.47           | 34             | 1177.47               |
|         | 06/16/95 | 1211.47           | 34.08          | 1177.39               |
|         | 07/11/95 | 1211.47           | 34.06          | 1177.41               |
|         | 07/31/95 | 1211.47           | 36.3           | 1175.17               |
|         | 08/29/95 | 1211.47           | 34.06          | 1177.41               |
|         | 09/30/95 | 1211.47           | 34.11          | 1177.36               |
|         | 10/17/95 | 1211.47           | 34.05          | 1177.42               |
|         | 11/17/95 | 1211.47           | 35             | 1176.47               |
|         | 12/26/95 | 1211.47           | 34.18          | 1177.29               |

**TABLE 7 - GROUNDWATER ELEVATION DATA**  
**FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP36-B  | 01/12/96 | 1211.47           | 35.15          | 1176.32               |
|         | 02/09/96 | 1211.47           | 35.65          | 1175.82               |
|         | 02/28/96 | 1211.47           | 35.65          | 1175.82               |
|         | 03/21/96 | 1211.47           | 35.39          | 1176.08               |
|         | 04/09/96 | 1211.47           | 35.59          | 1175.88               |
|         | 05/06/96 | 1211.47           | 35.5           | 1175.97               |
|         | 06/24/96 | 1211.47           | 35.39          | 1176.08               |
|         | 07/02/96 | 1211.47           | 34.71          | 1176.76               |
|         | 07/15/96 | 1211.47           | 36.85          | 1174.62               |
|         | 08/14/96 | 1211.47           | 34.75          | 1176.72               |
|         | 09/30/96 | 1211.47           | 34.75          | 1176.72               |
|         | 10/03/96 | 1211.47           | 34.75          | 1176.72               |
|         | 11/19/96 | 1211.47           | 36.55          | 1174.92               |
|         | 12/31/96 | 1211.47           | 34.95          | 1176.52               |
|         | 01/09/97 | 1211.47           | 36.2           | 1175.27               |
|         | 01/27/97 | 1211.47           | 33.5           | 1177.97               |
|         | 02/17/97 | 1211.47           | 36.7           | 1174.77               |
|         | 03/21/97 | 1211.47           | 36.7           | 1174.77               |
|         | 04/01/97 | 1211.47           | 35.96          | 1175.51               |
|         | 05/16/97 | 1211.47           | 36.95          | 1174.52               |
|         | 06/11/97 | 1211.47           | 36.95          | 1174.52               |
|         | 06/30/97 | 1211.47           | 37.75          | 1173.72               |
|         | 07/30/97 | 1211.47           | 38.2           | 1173.27               |
|         | 08/08/97 | 1211.47           | 35.6           | 1175.87               |
|         | 08/25/97 | 1211.47           | 37.96          | 1173.51               |
|         | 09/30/97 | 1211.47           | 37.73          | 1173.74               |
|         | 10/16/97 | 1211.47           | 38.02          | 1173.45               |
|         | 11/29/97 | 1211.47           | 39.5           | 1171.97               |
|         | 12/16/97 | 1211.47           | 39.42          | 1172.05               |
| MP36-C  | 01/11/95 | 1211.47           | 32.9           | 1178.57               |
|         | 02/02/95 | 1211.47           | 32.93          | 1178.54               |
|         | 02/28/95 | 1211.47           | 33.31          | 1178.16               |
|         | 03/27/95 | 1211.47           | 33.98          | 1177.49               |
|         | 04/06/95 | 1211.47           | 33.98          | 1177.49               |
|         | 05/12/95 | 1211.47           | 33.88          | 1177.59               |
|         | 06/16/95 | 1211.47           | 33.95          | 1177.52               |
|         | 07/31/95 | 1211.47           | 35.2           | 1176.27               |
|         | 08/29/95 | 1211.47           | 34.14          | 1177.33               |
|         | 09/30/95 | 1211.47           | 34.19          | 1177.28               |
|         | 10/17/95 | 1211.47           | 33.91          | 1177.56               |
|         | 11/17/95 | 1211.47           | 36.76          | 1174.71               |
|         | 12/26/95 | 1211.47           | 34.32          | 1177.15               |
|         | 01/12/96 | 1211.47           | 36.75          | 1174.72               |
|         | 02/09/96 | 1211.47           | 35.6           | 1175.87               |
|         | 02/28/96 | 1211.47           | 35.16          | 1176.31               |
|         | 03/21/96 | 1211.47           | 34.81          | 1176.66               |
|         | 04/09/96 | 1211.47           | 35.13          | 1176.34               |
|         | 05/13/96 | 1211.47           | 35.1           | 1176.37               |
|         | 06/24/96 | 1211.47           | 35.02          | 1176.45               |
|         | 07/02/96 | 1211.47           | 34.65          | 1176.82               |
|         | 07/18/96 | 1211.47           | 35.1           | 1176.37               |
|         | 08/14/96 | 1211.47           | 34.68          | 1176.79               |
|         | 09/30/96 | 1211.47           | 34.67          | 1176.8                |
|         | 10/03/96 | 1211.47           | 34.67          | 1176.8                |
|         | 11/19/96 | 1211.47           | 35.2           | 1176.27               |
|         | 12/31/96 | 1211.47           | 34.75          | 1176.72               |
|         | 01/09/97 | 1211.47           | 35.8           | 1175.67               |
|         | 01/27/97 | 1211.47           | 34.9           | 1176.57               |
|         | 02/17/97 | 1211.47           | 35.9           | 1175.57               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP36-C  | 03/21/97 | 1211.47           | 35.89          | 1175.58               |
|         | 04/01/97 | 1211.47           | 34.91          | 1176.56               |
|         | 05/16/97 | 1211.47           | 35.97          | 1175.5                |
|         | 06/11/97 | 1211.47           | 35.97          | 1175.5                |
|         | 06/30/97 | 1211.47           | 37.5           | 1173.97               |
|         | 07/30/97 | 1211.47           | 36.3           | 1175.17               |
|         | 08/08/97 | 1211.47           | 40             | 1171.47               |
|         | 08/25/97 | 1211.47           | 36.84          | 1174.63               |
|         | 09/30/97 | 1211.47           | 35.97          | 1175.5                |
|         | 10/16/97 | 1211.47           | 37.01          | 1174.46               |
|         | 11/29/97 | 1211.47           | 38.07          | 1173.4                |
|         | 12/16/97 | 1211.47           | 38             | 1173.47               |
| MP36-D  | 01/11/95 | 1211.47           | 32.7           | 1178.77               |
|         | 02/03/95 | 1211.47           | 32.7           | 1178.77               |
|         | 02/28/95 | 1211.47           | 33             | 1178.47               |
|         | 03/27/95 | 1211.47           | 32.87          | 1178.6                |
|         | 04/06/95 | 1211.47           | 32.87          | 1178.6                |
|         | 05/12/95 | 1211.47           | 32.94          | 1178.53               |
|         | 06/16/95 | 1211.47           | 33.01          | 1178.46               |
|         | 07/11/95 | 1211.47           | 33.03          | 1178.44               |
|         | 08/10/95 | 1211.47           | 36.9           | 1174.57               |
|         | 08/29/95 | 1211.47           | 33.02          | 1178.45               |
|         | 09/30/95 | 1211.47           | 33.19          | 1178.28               |
|         | 10/17/95 | 1211.47           | 33.02          | 1178.45               |
|         | 11/17/95 | 1211.47           | 33.38          | 1178.09               |
|         | 12/26/95 | 1211.47           | 34.3           | 1177.17               |
|         | 01/12/96 | 1211.47           | 34             | 1177.47               |
|         | 02/09/96 | 1211.47           | 34.49          | 1176.98               |
|         | 02/28/96 | 1211.47           | 34.49          | 1176.98               |
|         | 03/21/96 | 1211.47           | 34.49          | 1176.98               |
|         | 04/09/96 | 1211.47           | 34.42          | 1177.05               |
|         | 05/13/96 | 1211.47           | 34.8           | 1176.67               |
|         | 06/24/96 | 1211.47           | 34.3           | 1177.17               |
|         | 07/02/96 | 1211.47           | 33.8           | 1177.67               |
|         | 07/19/96 | 1211.47           | 34.89          | 1176.58               |
|         | 08/14/96 | 1211.47           | 33.86          | 1177.61               |
|         | 09/30/96 | 1211.47           | 33.88          | 1177.59               |
|         | 10/03/96 | 1211.47           | 33.87          | 1177.6                |
|         | 11/19/96 | 1211.47           | 36.6           | 1174.87               |
|         | 11/20/96 | 1211.47           | 36.6           | 1174.87               |
|         | 12/31/96 | 1211.47           | 34             | 1177.47               |
|         | 01/09/97 | 1211.47           | 35.6           | 1175.87               |
|         | 01/28/97 | 1211.47           | 35.2           | 1176.27               |
|         | 02/17/97 | 1211.47           | 35.35          | 1176.12               |
|         | 03/21/97 | 1211.47           | 35.37          | 1176.1                |
|         | 04/01/97 | 1211.47           | 34.66          | 1176.81               |
|         | 05/16/97 | 1211.47           | 37.01          | 1174.46               |
|         | 06/11/97 | 1211.47           | 37.01          | 1174.46               |
|         | 06/30/97 | 1211.47           | 36.23          | 1175.24               |
|         | 07/30/97 | 1211.47           | 36.7           | 1174.77               |
|         | 08/11/97 | 1211.47           | 36             | 1175.47               |
|         | 08/25/97 | 1211.47           | 36.53          | 1174.94               |
|         | 09/30/97 | 1211.47           | 36.19          | 1175.28               |
|         | 10/16/97 | 1211.47           | 36.88          | 1174.59               |
|         | 11/29/97 | 1211.47           | 37.7           | 1173.77               |
|         | 12/16/97 | 1211.47           | 38.37          | 1173.1                |
| MP37-A  | 05/25/95 | 1213.55           | 24             | 1189.55               |
|         | 06/15/95 | 1213.55           | 24.03          | 1189.52               |
|         | 07/11/95 | 1213.55           | 24.09          | 1189.46               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP37-A  | 10/17/95 | 1213.55           | 24.59          | 1188.96               |
|         | 01/12/96 | 1213.55           | 22             | 1191.55               |
|         | 02/27/96 | 1213.55           | 22.97          | 1190.58               |
|         | 03/21/96 | 1213.55           | 23.65          | 1189.9                |
|         | 04/09/96 | 1213.55           | 22.88          | 1190.67               |
|         | 06/21/96 | 1213.55           | 22.86          | 1190.69               |
| MP37-B  | 05/25/95 | 1213.55           | 47.99          | 1165.56               |
|         | 06/15/95 | 1213.55           | 48             | 1165.55               |
|         | 07/11/95 | 1213.55           | 47.98          | 1165.57               |
|         | 10/17/95 | 1213.55           | 48             | 1165.55               |
|         | 01/12/96 | 1213.55           | 46.87          | 1166.68               |
|         | 02/27/96 | 1213.55           | 47.75          | 1165.8                |
|         | 03/21/96 | 1213.55           | 47.2           | 1166.35               |
|         | 04/09/96 | 1213.55           | 47.7           | 1165.85               |
|         | 06/21/96 | 1213.55           | 47.72          | 1165.83               |
| MP37-C  | 01/10/95 | 1213.55           | 34.2           | 1179.35               |
|         | 01/26/95 | 1213.55           | 31.6           | 1181.95               |
|         | 02/28/95 | 1213.55           | 34.3           | 1179.25               |
|         | 03/27/95 | 1213.55           | 34.6           | 1178.95               |
|         | 04/06/95 | 1213.55           | 34.6           | 1178.95               |
|         | 04/26/95 | 1213.55           | 34.33          | 1179.22               |
|         | 05/25/95 | 1213.55           | 34.75          | 1178.8                |
|         | 06/15/95 | 1213.55           | 34.81          | 1178.74               |
|         | 07/11/95 | 1213.55           | 34.9           | 1178.65               |
|         | 08/30/95 | 1213.55           | 34.9           | 1178.65               |
|         | 09/30/95 | 1213.55           | 34.97          | 1178.58               |
|         | 10/17/95 | 1213.55           | 34.85          | 1178.7                |
|         | 11/09/95 | 1213.55           | 35.45          | 1178.1                |
|         | 01/12/96 | 1213.55           | 34.6           | 1178.95               |
|         | 02/27/96 | 1213.55           | 33.8           | 1179.75               |
|         | 03/21/96 | 1213.55           | 34.16          | 1179.39               |
|         | 04/09/96 | 1213.55           | 33.83          | 1179.72               |
|         | 05/02/96 | 1213.55           | 32.7           | 1180.85               |
|         | 05/03/96 | 1213.55           | 33.9           | 1179.65               |
|         | 06/24/96 | 1213.55           | 33.65          | 1179.9                |
|         | 07/02/96 | 1213.55           | 33.12          | 1180.43               |
|         | 08/14/96 | 1213.55           | 33.18          | 1180.37               |
|         | 09/27/96 | 1213.55           | 33.18          | 1180.37               |
|         | 10/03/96 | 1213.55           | 33.18          | 1180.37               |
|         | 11/01/96 | 1213.55           | 36.1           | 1177.45               |
|         | 12/31/96 | 1213.55           | 33.85          | 1179.7                |
|         | 01/09/97 | 1213.55           | 33.05          | 1180.5                |
|         | 02/17/97 | 1213.55           | 33.05          | 1180.5                |
|         | 03/21/97 | 1213.55           | 33.17          | 1180.38               |
|         | 04/01/97 | 1213.55           | 32.58          | 1180.97               |
|         | 04/25/97 | 1213.55           | 45.05          | 1168.5                |
|         | 06/12/97 | 1213.55           | 34.07          | 1179.48               |
|         | 06/30/97 | 1213.55           | 34.64          | 1178.91               |
|         | 07/28/97 | 1213.55           | 55.12          | 1158.43               |
|         | 08/25/97 | 1213.55           | 36.2           | 1177.35               |
|         | 09/30/97 | 1213.55           | 36.68          | 1176.87               |
|         | 10/16/97 | 1213.55           | 36.33          | 1177.22               |
|         | 11/29/97 | 1213.55           | 37.55          | 1176                  |
|         | 12/08/97 | 1213.55           | 37.31          | 1176.24               |
| MP48-A  | 03/14/95 | 1195.3            | 39.6           | 1155.7                |
| MP48-B  | 04/06/95 | 1195.3            | 25.96          | 1169.34               |
|         | 07/12/95 | 1195.3            | 25.98          | 1169.32               |
|         | 10/18/95 | 1195.3            | 26             | 1169.3                |
| MP48-C  | 04/06/95 | 1195.3            | 35.77          | 1159.53               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| MP48-C  | 07/12/95 | 1195.3            | 35.78          | 1159.52               |
|         | 10/18/95 | 1195.3            | 35.81          | 1159.49               |
| MP48-D  | 04/06/95 | 1195.3            | 38.66          | 1156.64               |
|         | 10/18/95 | 1195.3            | 38.7           | 1156.6                |
| MP48-E  | 04/06/95 | 1195.3            | 40.79          | 1154.51               |
|         | 07/12/95 | 1195.3            | 38.69          | 1156.61               |
|         | 10/18/95 | 1195.3            | 40.85          | 1154.45               |
| MP49-D  | 07/12/95 | 1195.3            | 38.71          | 1156.59               |
| PZ01    | 01/31/96 | 1208.85           | 23.83          | 1185.02               |
|         | 05/31/96 | 1208.85           | 21.5           | 1187.35               |
|         | 10/03/96 | 1208.85           | -999           | Dry                   |
|         | 11/08/96 | 1208.85           | -999           | Dry                   |
|         | 12/31/96 | 1208.85           | -999           | Dry                   |
|         | 01/07/97 | 1208.85           | -999           | Dry                   |
|         | 02/18/97 | 1208.85           | -999           | Dry                   |
|         | 03/21/97 | 1208.85           | 24             | 1184.85               |
|         | 04/01/97 | 1208.85           | 23.19          | 1185.66               |
|         | 05/01/97 | 1208.85           | 24.47          | 1184.38               |
|         | 06/30/97 | 1208.85           | -999           | Dry                   |
|         | 07/28/97 | 1208.85           | -999           | Dry                   |
|         | 08/25/97 | 1208.85           | -999           | Dry                   |
|         | 09/30/97 | 1208.85           | -999           | Dry                   |
|         | 10/17/97 | 1208.85           | -999           | Dry                   |
|         | 11/10/97 | 1208.85           | -999           | Dry                   |
|         | 11/19/97 | 1208.85           | -999           | Dry                   |
|         | 12/30/97 | 1208.85           | 25.4           | 1183.45               |
|         | 01/30/98 | 1208.85           | 22.99          | 1185.86               |
|         | 04/14/98 | 1208.85           | 25.01          | 1183.84               |
|         | 07/28/98 | 1208.85           | -999           | Dry                   |
|         | 10/12/98 | 1208.85           | -999           | Dry                   |
|         | 07/16/99 | 1209.28           | -999           | Dry                   |
|         | 12/09/99 | 1209.28           | -999           | Dry                   |
|         | 02/08/00 | 1209.28           | 23.97          | 1185.31               |
| PZ02    | 05/24/95 | 1209.25           | 31.37          | 1177.88               |
|         | 10/18/95 | 1209.25           | 31.37          | 1177.88               |
|         | 11/20/95 | 1209.25           | 33.5           | 1175.75               |
|         | 01/31/96 | 1209.25           | 31.12          | 1178.13               |
|         | 02/28/96 | 1209.25           | 31.06          | 1178.19               |
|         | 03/21/96 | 1209.25           | 30.22          | 1179.03               |
|         | 04/09/96 | 1209.25           | 30.68          | 1178.57               |
|         | 05/08/96 | 1209.25           | 31             | 1178.25               |
|         | 05/31/96 | 1209.25           | 31.15          | 1178.1                |
|         | 06/20/96 | 1209.25           | 31             | 1178.25               |
|         | 07/05/96 | 1209.25           | 30.2           | 1179.05               |
|         | 08/14/96 | 1209.25           | 30.98          | 1178.27               |
|         | 09/27/96 | 1209.25           | 30.97          | 1178.28               |
|         | 10/03/96 | 1209.25           | 30.96          | 1178.29               |
|         | 11/08/96 | 1209.25           | 30.75          | 1178.5                |
|         | 12/31/96 | 1209.25           | 30.77          | 1178.48               |
|         | 01/07/97 | 1209.25           | 30.42          | 1178.83               |
|         | 02/18/97 | 1209.25           | 30.6           | 1178.65               |
|         | 03/21/97 | 1209.25           | 28.1           | 1181.15               |
|         | 04/01/97 | 1209.25           | 27.8           | 1181.45               |
|         | 05/05/97 | 1209.25           | 28.87          | 1180.38               |
|         | 06/30/97 | 1209.25           | 29.78          | 1179.47               |
|         | 07/28/97 | 1209.25           | 28.91          | 1180.34               |
|         | 08/25/97 | 1209.25           | 30.96          | 1178.29               |
|         | 09/30/97 | 1209.25           | 32.66          | 1176.59               |
|         | 10/17/97 | 1209.25           | 33.57          | 1175.68               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| PZ02    | 11/11/97 | 1209.25           | 32.77          | 1176.48               |
|         | 12/30/97 | 1209.25           | 31             | 1178.25               |
| PZ03    | 04/06/95 | 1209.28           | 10.87          | 1198.41               |
|         | 07/12/95 | 1209.28           | 10.89          | 1198.39               |
|         | 01/31/96 | 1209.28           | 19.96          | 1189.32               |
|         | 04/09/96 | 1209.28           | 26.01          | 1183.27               |
|         | 05/31/96 | 1209.28           | 13.85          | 1195.43               |
|         | 06/20/96 | 1209.28           | 14.15          | 1195.13               |
|         | 07/05/96 | 1209.28           | 14.1           | 1195.18               |
|         | 08/14/96 | 1209.28           | 26.31          | 1182.97               |
|         | 09/27/96 | 1209.28           | 26.29          | 1182.99               |
|         | 10/03/96 | 1209.28           | 26.28          | 1183                  |
|         | 11/15/96 | 1209.28           | 29.47          | 1179.81               |
|         | 12/31/96 | 1209.28           | 27.51          | 1181.77               |
|         | 01/07/97 | 1209.28           | -999           | Dry                   |
|         | 02/18/97 | 1209.28           | -999           | Dry                   |
|         | 03/21/97 | 1209.28           | -999           | Dry                   |
|         | 04/01/97 | 1209.28           | -999           | Dry                   |
|         | 06/30/97 | 1209.28           | -999           | Dry                   |
|         | 07/28/97 | 1209.28           | -999           | Dry                   |
|         | 08/25/97 | 1209.28           | -999           | Dry                   |
|         | 09/30/97 | 1209.28           | -999           | Dry                   |
|         | 10/17/97 | 1209.28           | -999           | Dry                   |
|         | 11/11/97 | 1208.85           | -999           | Dry                   |
|         | 11/29/97 | 1209.28           | -999           | Dry                   |
|         | 12/30/97 | 1209.28           | -999           | Dry                   |
| PZ04    | 04/06/95 | 1209.71           | 32.42          | 1177.29               |
|         | 05/24/95 | 1209.71           | 33.22          | 1176.49               |
|         | 07/12/95 | 1209.71           | 32.45          | 1177.26               |
|         | 10/18/95 | 1209.71           | 33.2           | 1176.51               |
|         | 11/21/95 | 1209.71           | 33.09          | 1176.62               |
|         | 01/31/96 | 1209.71           | 34             | 1175.71               |
|         | 02/28/96 | 1209.71           | 34             | 1175.71               |
|         | 03/22/96 | 1209.71           | 34.13          | 1175.58               |
|         | 04/09/96 | 1209.71           | 33.01          | 1176.7                |
|         | 05/08/96 | 1209.71           | 33.55          | 1176.16               |
|         | 05/15/96 | 1209.71           | 34.12          | 1175.59               |
|         | 05/31/96 | 1209.71           | 33.71          | 1176                  |
|         | 06/20/96 | 1209.71           | 32.9           | 1176.81               |
|         | 07/05/96 | 1209.71           | 32.7           | 1177.01               |
|         | 08/14/96 | 1209.71           | 33.29          | 1176.42               |
|         | 09/27/96 | 1209.71           | 33.3           | 1176.41               |
|         | 10/03/96 | 1209.71           | 33.3           | 1176.41               |
|         | 11/15/96 | 1209.71           | 33.8           | 1175.91               |
|         | 12/31/96 | 1209.71           | 33.78          | 1175.93               |
|         | 01/07/97 | 1209.71           | 33.75          | 1175.96               |
|         | 02/18/97 | 1209.71           | 33.8           | 1175.91               |
|         | 03/21/97 | 1209.71           | 33.75          | 1175.96               |
|         | 04/01/97 | 1209.71           | 32.74          | 1176.97               |
|         | 05/05/97 | 1209.71           | 33.46          | 1176.25               |
|         | 06/30/97 | 1209.71           | 34.2           | 1175.51               |
|         | 07/28/97 | 1209.71           | 34.12          | 1175.59               |
|         | 08/25/97 | 1209.71           | 34.27          | 1175.44               |
|         | 09/30/97 | 1209.71           | 35.69          | 1174.02               |
|         | 10/17/97 | 1209.71           | 34.27          | 1175.44               |
|         | 11/10/97 | 1209.71           | 36.4           | 1173.31               |
|         | 11/11/97 | 1209.71           | 35.32          | 1174.39               |
|         | 12/30/97 | 1209.71           | 35.7           | 1174.01               |
|         | 01/29/98 | 1209.71           | 35.16          | 1174.55               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| PZ04    | 04/14/98 | 1209.71           | 33.27          | 1176.44               |
|         | 07/28/98 | 1209.71           | 34.8           | 1174.91               |
|         | 10/12/98 | 1209.71           | 35.98          | 1173.73               |
|         | 04/12/99 | 1209.71           | 36.84          | 1172.87               |
|         | 07/16/99 | 1210.1            | -999           | Dry                   |
|         | 12/09/99 | 1210.1            | -999           | Dry                   |
|         | 04/06/00 | 1210.1            | 37.24          | 1172.86               |
| PZ05    | 04/09/96 | 1209.69           | 30.04          | 1179.65               |
|         | 10/03/96 | 1209.69           | 30.16          | 1179.53               |
|         | 11/15/96 | 1209.69           | 30.23          | 1179.46               |
|         | 12/31/96 | 1209.69           | 30.27          | 1179.42               |
|         | 01/07/97 | 1209.69           | -999           | Dry                   |
|         | 02/18/97 | 1209.69           | -999           | Dry                   |
|         | 03/21/97 | 1209.69           | -999           | Dry                   |
|         | 04/01/97 | 1209.69           | -999           | Dry                   |
|         | 06/30/97 | 1209.69           | -999           | Dry                   |
|         | 07/28/97 | 1209.69           | -999           | Dry                   |
|         | 08/25/97 | 1209.69           | -999           | Dry                   |
|         | 09/30/97 | 1209.69           | -999           | Dry                   |
|         | 10/17/97 | 1209.69           | -999           | Dry                   |
|         | 11/29/97 | 1209.69           | -999           | Dry                   |
|         | 12/30/97 | 1209.69           | -999           | Dry                   |
| PZ06    | 04/06/95 | 1210.1            | 32.71          | 1177.39               |
|         | 05/24/95 | 1210.1            | 33.6           | 1176.5                |
|         | 07/12/95 | 1210.1            | 32.7           | 1177.4                |
|         | 10/18/95 | 1210.1            | 33.69          | 1176.41               |
|         | 11/21/95 | 1210.1            | 33.82          | 1176.28               |
|         | 01/31/96 | 1210.1            | 33.58          | 1176.52               |
|         | 02/28/96 | 1210.1            | 33.5           | 1176.6                |
|         | 03/22/96 | 1210.1            | 33.63          | 1176.47               |
|         | 04/09/96 | 1210.1            | 33.21          | 1176.89               |
|         | 05/20/96 | 1210.1            | 34.5           | 1175.6                |
|         | 05/30/96 | 1210.1            | 33.19          | 1176.91               |
|         | 06/20/96 | 1210.1            | 32.51          | 1177.59               |
|         | 07/05/96 | 1210.1            | 33.1           | 1177                  |
|         | 08/14/96 | 1210.1            | 33.36          | 1176.74               |
|         | 09/27/96 | 1210.1            | 33.35          | 1176.75               |
|         | 10/03/96 | 1210.1            | 33.35          | 1176.75               |
|         | 11/07/96 | 1210.1            | 35.2           | 1174.9                |
|         | 11/09/96 | 1210.1            | 35.2           | 1174.9                |
|         | 12/31/96 | 1210.1            | 35.25          | 1174.85               |
|         | 01/07/97 | 1210.1            | 34.3           | 1175.8                |
|         | 02/18/97 | 1210.1            | 34.25          | 1175.85               |
|         | 03/21/97 | 1210.1            | 34.85          | 1175.25               |
|         | 04/01/97 | 1210.1            | 34.03          | 1176.07               |
|         | 05/05/97 | 1210.1            | 34.82          | 1175.28               |
|         | 06/30/97 | 1210.1            | 35.73          | 1174.37               |
|         | 07/28/97 | 1210.1            | 34.6           | 1175.5                |
|         | 08/25/97 | 1210.1            | 36.48          | 1173.62               |
|         | 09/30/97 | 1210.1            | 36.49          | 1173.61               |
|         | 10/17/97 | 1210.1            | 37.3           | 1172.8                |
|         | 11/10/97 | 1210.1            | 36.4           | 1173.7                |
|         | 12/30/97 | 1210.1            | 37.1           | 1173                  |
| PZ07    | 01/20/95 | 1210.14           | 32.06          | 1178.08               |
|         | 01/31/95 | 1210.14           | 33.03          | 1177.11               |
|         | 04/06/95 | 1210.14           | 33.3           | 1176.84               |
|         | 05/24/95 | 1210.14           | 31.82          | 1178.32               |
|         | 07/12/95 | 1210.14           | 33.38          | 1176.76               |
|         | 07/27/95 | 1210.14           | 34.9           | 1175.24               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| PZ07    | 10/18/95 | 1210.14           | 31.85          | 1178.29               |
|         | 11/21/95 | 1210.14           | 31.3           | 1178.84               |
|         | 01/31/96 | 1210.14           | 34             | 1176.14               |
|         | 02/13/96 | 1210.14           | 33.65          | 1176.49               |
|         | 02/28/96 | 1210.14           | 33.65          | 1176.49               |
|         | 03/22/96 | 1210.14           | 34.39          | 1175.75               |
|         | 04/09/96 | 1210.14           | 33.15          | 1176.99               |
|         | 05/03/96 | 1210.14           | 33.8           | 1176.34               |
|         | 05/30/96 | 1210.14           | 33.8           | 1176.34               |
|         | 06/20/96 | 1210.14           | 33.19          | 1176.95               |
|         | 07/05/96 | 1210.14           | 32.85          | 1177.29               |
|         | 07/22/96 | 1210.14           | 35.7           | 1174.44               |
|         | 08/14/96 | 1210.14           | 33.28          | 1176.86               |
|         | 09/27/96 | 1210.14           | 33.27          | 1176.87               |
|         | 10/03/96 | 1210.14           | 33.26          | 1176.88               |
|         | 11/07/96 | 1210.14           | 35.4           | 1174.74               |
|         | 12/31/96 | 1210.14           | 35.43          | 1174.71               |
|         | 01/07/97 | 1210.14           | 34.2           | 1175.94               |
|         | 01/28/97 | 1210.14           | 34.35          | 1175.79               |
|         | 02/18/97 | 1210.14           | 35.3           | 1174.84               |
|         | 03/21/97 | 1210.14           | 35.1           | 1175.04               |
|         | 04/01/97 | 1210.14           | 34.25          | 1175.89               |
|         | 04/30/97 | 1210.14           | 34.16          | 1175.98               |
|         | 06/30/97 | 1210.14           | 35.15          | 1174.99               |
|         | 07/28/97 | 1210.14           | 36.28          | 1173.86               |
|         | 08/08/97 | 1210.14           | 34.21          | 1175.93               |
|         | 08/25/97 | 1210.14           | 36.08          | 1174.06               |
|         | 09/30/97 | 1210.14           | 36.7           | 1173.44               |
|         | 10/17/97 | 1210.14           | 37.35          | 1172.79               |
|         | 11/10/97 | 1210.14           | 36.7           | 1173.44               |
|         | 12/30/97 | 1210.14           | 37.75          | 1172.39               |
| PZ08    | 01/31/96 | 1208.32           | 19.88          | 1188.44               |
|         | 03/21/96 | 1208.32           | 21.78          | 1186.54               |
|         | 10/03/96 | 1208.32           | -999           | Dry                   |
|         | 11/08/96 | 1208.32           | -999           | Dry                   |
|         | 12/31/96 | 1208.32           | -999           | Dry                   |
|         | 01/07/97 | 1208.32           | 33.95          | 1174.37               |
|         | 02/18/97 | 1208.32           | 34.05          | 1174.27               |
|         | 03/21/97 | 1208.32           | 19             | 1189.32               |
|         | 04/01/97 | 1208.32           | 18.19          | 1190.13               |
|         | 06/30/97 | 1208.32           | 18.8           | 1189.52               |
|         | 07/28/97 | 1208.32           | 19.34          | 1188.98               |
|         | 08/25/97 | 1208.32           | 20.33          | 1187.99               |
|         | 09/30/97 | 1208.32           | 19.76          | 1188.56               |
|         | 10/17/97 | 1208.32           | 21.36          | 1186.96               |
|         | 11/29/97 | 1208.32           | -999           | Dry                   |
|         | 12/30/97 | 1208.32           | -999           | Dry                   |
| PZ09    | 04/06/95 | 1210.01           | 32.09          | 1177.92               |
|         | 05/24/95 | 1210.01           | 33.39          | 1176.62               |
|         | 07/12/95 | 1210.01           | 32.06          | 1177.95               |
|         | 10/18/95 | 1210.01           | 33.45          | 1176.56               |
|         | 11/20/95 | 1210.01           | 34.01          | 1176                  |
|         | 01/31/96 | 1210.01           | 22.62          | 1187.39               |
|         | 02/28/96 | 1210.01           | 33.4           | 1176.61               |
|         | 03/22/96 | 1210.01           | 34.61          | 1175.4                |
|         | 04/09/96 | 1210.01           | 33.27          | 1176.74               |
|         | 05/03/96 | 1210.01           | 30.7           | 1179.31               |
|         | 05/30/96 | 1210.01           | 33.35          | 1176.66               |
|         | 06/20/96 | 1210.01           | 32.89          | 1177.12               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| PZ09    | 07/05/96 | 1210.01           | 33.12          | 1176.89               |
|         | 08/14/96 | 1210.01           | 33.41          | 1176.6                |
|         | 09/27/96 | 1210.01           | 33.41          | 1176.6                |
|         | 10/03/96 | 1210.01           | 33.41          | 1176.6                |
|         | 11/08/96 | 1210.01           | 35.2           | 1174.81               |
|         | 12/31/96 | 1210.01           | 35.23          | 1174.78               |
|         | 01/07/97 | 1210.01           | 33.75          | 1176.26               |
|         | 02/18/97 | 1210.01           | 35.2           | 1174.81               |
|         | 03/21/97 | 1210.01           | 35.2           | 1174.81               |
|         | 04/01/97 | 1210.01           | 31.25          | 1178.76               |
|         | 04/17/97 | 1210.01           | 35.14          | 1174.87               |
|         | 06/30/97 | 1210.01           | 35.31          | 1174.7                |
|         | 07/28/97 | 1210.01           | 25.69          | 1184.32               |
|         | 08/25/97 | 1210.01           | 36.17          | 1173.84               |
|         | 09/30/97 | 1210.01           | 35.97          | 1174.04               |
|         | 10/17/97 | 1210.01           | 37.88          | 1172.13               |
|         | 11/10/97 | 1210.01           | 37.9           | 1172.11               |
|         | 12/30/97 | 1210.01           | 36.4           | 1173.61               |
|         | 01/29/98 | 1210.01           | 36.61          | 1173.4                |
|         | 04/14/98 | 1210.01           | 36.39          | 1173.62               |
|         | 07/29/98 | 1210.01           | 36.2           | 1173.81               |
|         | 10/12/98 | 1210.01           | 33.8           | 1176.21               |
|         | 04/12/99 | 1210.01           | 38.34          | 1171.67               |
|         | 07/16/99 | 1210.01           | 38.7           | 1171.31               |
|         | 12/09/99 | 1210.01           | 28.7           | 1181.31               |
|         | 04/06/00 | 1210.01           | 32.67          | 1177.34               |
| PZ10    | 01/20/95 | 1212.06           | 34.68          | 1177.38               |
|         | 02/01/95 | 1212.06           | 34.85          | 1177.21               |
|         | 04/06/95 | 1212.06           | 31.49          | 1180.57               |
|         | 05/24/95 | 1212.06           | 35.51          | 1176.55               |
|         | 07/12/95 | 1212.06           | 35.48          | 1176.58               |
|         | 07/27/95 | 1212.06           | 35.48          | 1176.58               |
|         | 10/18/95 | 1212.06           | 35.63          | 1176.43               |
|         | 11/21/95 | 1212.06           | 36.46          | 1175.6                |
|         | 01/31/96 | 1212.06           | 35.8           | 1176.26               |
|         | 02/13/96 | 1212.06           | 35.64          | 1176.42               |
|         | 02/28/96 | 1212.06           | 35.64          | 1176.42               |
|         | 03/22/96 | 1212.06           | 36.28          | 1175.78               |
|         | 04/09/96 | 1212.06           | 35.49          | 1176.57               |
|         | 05/13/96 | 1212.06           | 36.25          | 1175.81               |
|         | 05/30/96 | 1212.06           | 35.79          | 1176.27               |
|         | 06/20/96 | 1212.06           | 36.65          | 1175.41               |
|         | 07/05/96 | 1212.06           | 35.31          | 1176.75               |
|         | 07/22/96 | 1212.06           | 36.83          | 1175.23               |
|         | 08/14/96 | 1212.06           | 35.62          | 1176.44               |
|         | 09/27/96 | 1212.06           | 35.64          | 1176.42               |
|         | 10/03/96 | 1212.06           | 35.65          | 1176.41               |
|         | 11/20/96 | 1212.06           | 36.5           | 1175.56               |
|         | 12/31/96 | 1212.06           | 36.52          | 1175.54               |
|         | 01/07/97 | 1212.1            | 35.1           | 1177                  |
|         | 01/24/97 | 1212.1            | 36.9           | 1175.2                |
|         | 02/18/97 | 1212.1            | 36.7           | 1175.4                |
|         | 03/21/97 | 1212.1            | 36.57          | 1175.53               |
|         | 04/03/97 | 1212.1            | 36.58          | 1175.52               |
|         | 05/02/97 | 1212.1            | 36.1           | 1176                  |
|         | 06/30/97 | 1212.1            | 37.95          | 1174.15               |
|         | 07/28/97 | 1212.1            | 38.18          | 1173.92               |
|         | 08/11/97 | 1212.1            | 38.08          | 1174.02               |
|         | 08/26/97 | 1212.1            | 38.17          | 1173.93               |

**TABLE 7 - GROUNDWATER ELEVATION DATA  
FROM JAN. 1995 TO NOV. 2000**

| Well ID | Date     | Measurement Point | Depth to water | Groundwater Elevation |
|---------|----------|-------------------|----------------|-----------------------|
| PZ10    | 09/30/97 | 1212.1            | 37.51          | 1174.59               |
|         | 10/17/97 | 1212.1            | -999           | Dry                   |
|         | 11/10/97 | 1212.1            | 39.6           | 1172.5                |
|         | 12/30/97 | 1212.1            | 39.05          | 1173.05               |
|         |          |                   |                |                       |

**TABLE 8**  
**IDENTIFIED ISSUES AND NOTED CONCERNS**

| #  | Location   | Issues  | Protectiveness Affected? |         |
|----|--|---|--------------------------|---------|
|    |  |   | Current                  | Future  |
| 1  | Groundwater Source Area                            | It is ADEQ's opinion that the pump and treat system is not significantly effective in reducing the levels of contaminants due to the DNAPL in fractured bedrock. ADEQ is concerned that high concentrations of TCE will continue in the source area wells for a long time.  | no                       | yes     |
|    |  | Source area well MP-03 has not been sampled since December 9, 1997.   | no                       | no      |
| 2  | Groundwater Downgradient to Courtyard              | ADEQ is concerned that the strong downward vertical gradient at DM606 may indicate that deep bedrock capture in that area is inadequate. A slight increasing TCE concentration trend in the 330 ft. port of this well increases this concern.   | unknown                  | unknown |
| 3  | Old Crosscut Canal (OCC) Extraction Wells          | Increasing TCE trends are observed in wells DM306, DM305, DM307, DM 312, and DM313 (See Section 7.1). ADEQ will continue to monitor the TCE trends in these wells.  | no                       | no      |
|    |  | Extraction well DM313 currently exceeds the MCL for TCE. This well must be put back into operation. In addition, should future increasing TCE trends be observed in extraction well DM312 that exceeds the MCL, this well must also be put back into operation.   | yes                      | no      |
|    |  | DM306 was set to run in cyclic mode, 30-minutes on and 1-hour off. Operation of this well in cyclic mode indicates that the extraction system may need to be modified to address capture of contaminants within the bedrock (See "Opportunities for Optimization" Section).   | unknown                  | unknown |
| 4  | Area Downgradient from the OCC inside Capture Zone | TCE concentrations are increasing in the shallow bedrock ports (170 ft.) of DM603 and DM605. This may be the result of TCE contaminant migration from deeper bedrock fractures.   | unknown                  | unknown |
| 5  | Area Downgradient from Capture Zone                | There are no wells immediately downgradient and outside the capture zone that can be used to confirm that the plume is contained. ADEQ is concerned, particularly since the alluvium is becoming dewatered, that downgradient monitoring in the bedrock is limited.   | unknown                  | yes     |
| 6  | Northern Edge of Groundwater Plume                 | The increasing TCE trend found in wells EW18 (alluvium/bedrock) and DM125 (125 ft. bedrock port) indicated that the migration of TCE may not be contained in the northern boundary of the plume. The concentrations of TCE found in these northern wells also indicated that TCE is not completely defined to the north.  | yes                      | no      |
| 7  | Vinyl Chloride in Groundwater                      | Groundwater data indicated that VC is detected more frequently and at higher concentrations exceeding MCLs in some of the wells associated with OU1.  | unknown                  | yes     |
| 8  | Bedrock Capture                                    | While dewatering of the alluvium indicates the success of the alluvial extraction system and alluvial capture, it changes the dynamics of the OU-1 extraction and treatment system:<br>a. As water levels decline and the alluvium is dewatered, the total extraction rate will be reduced. Both extraction and treatment system design changes will be necessary to handle the reduced flow.<br>b. ADEQ is concerned that as the alluvial aquifer is dewatered, the effectiveness of bedrock capture may be reduced. Motorola submitted an analysis of capture in bedrock in the 1994 Effectiveness Report (see Appendix E Interpretation and Use of hydraulic Head Data for Definition of the Capture Zone). According to the model, "pressure changes associated with a significant draw down in the alluvium are transmitted to great depth in the bedrock". This concept depends on pressure changes in the alluvium to induce capture in bedrock. This concept was demonstrated by the results of a three-dimensional numeric model discussed in the Appendix. If the alluvium is dewatered how can pressure changes be transmitted to bedrock fractures not connected to the extraction wells? | unknown                  | yes     |
| 9  | Soil Issues ATP                                    | The CO required that an SVE system be installed at the ATP. The site inspection and document review confirmed that no SVE system was installed in the ATP.  | no                       | yes     |
| 10 | Courtyard SVE                                      | The SVE system within the Courtyard area was not operated in a cyclic mode prior to shut down. In addition, no confirmatory soil sampling was performed.  | no                       | yes     |
| 11 | SWPL SVE   | No confirmatory soil sampling was performed after the shut down of the SVE system within the SWPL area.   | no                       | yes     |

| #  | Location                 | Issues   | Protectiveness Affected? |         |
|----|--------------------------|--|--------------------------|---------|
|    |                          |  | Current                  | Future  |
| 12 | Health Assessment Issues | A Site Review and Update for the 52nd Street Site has not been conducted by ADHS since 1996.   | no                       | no      |
| 13 | Health Assessment Issues | The Baseline Risk Assessment and the Health Assessments recommended to increase the frequency of monitoring Mr. Morgan's well. The well has not been sampled in years, however, this may be due to access issues.  | yes                      | yes     |
| 14 | Health Assessment Issues | Property owners have the right to install an "exempt" well for any type of use which cannot be restricted by ADWR. The potential future use of "exempt" wells by individual property owners has never been evaluated for OU1. An institutional control may need to be considered.  | no                       | yes     |
| 15 | Health Assessment Issues | ADHS identified a private well (Willis) in the 1992 Baseline Risk Assessment that is located within OU1. However, no information regarding the well is provided except that it is "closed".  | unknown                  | unknown |
| 16 | Health Assessment Issues | The Turnage well that was locked in 1986 to prevent its use and access is controlled by Motorola. This well is not monitored to ensure the integrity of the lock and the well. Additionally, it is unclear as to the status of ownership of the well.  | unknown                  | unknown |
| 17 | Health Assessment Issues | The ADHS Soil Gas Sampling Risk Assessment (March 1992) concluded that concentrations of 1,1-DCE are high enough to suggest that further study of potential indoor exposures may be warranted, including collecting air samples from residences. This issue is not addressed in the ADHS Baseline Risk Assessment (November 1992) or in subsequent ATSDR Health Assessments. | unknown                  | unknown |
| 18 | IGWTP                    | Inspection of the IGWTP revealed that the secondary containment system's protective coating was cracking, peeling, and/or lifting up.  | yes                      | no      |
| 19 | IGWTP                    | The PVC valve at the Liquid Chlorine Feed system looked brittle.   | no                       | no      |
| 20 | IGWTP                    | The pressure gauge on Air Stripper AS-201 was not functioning.   | no                       | no      |
| 21 | Monitoring Well          | Well vault MP-11 was full of water.  | no                       | no      |
| #  | Location                 | Noted Concerns   | Protectiveness Affected? |         |
|    |                          |  | Current                  | Future  |
| 1  | Plans                    | The treated effluent monitoring plan was not available on-site.  | no                       | no      |
| 2  | Permits                  | The PQGWWP was not available on-site.  | no                       | no      |
| 3  | Data                     | The IGWTP effluent data and air emissions data were not available on-site.   | no                       | no      |
| 4  | IGWTP                    | The perimeter fencing around the IGWTP did not completely surround the system, and locks were not provided on the access gates.  | no                       | no      |
| 5  | IGWTP                    | Perimeter signs that warns of unauthorized entry were of insufficient number to cover the entire perimeter of the IGWTP.   | no                       | no      |
| 6  | None                     | Review of the SWPL RI report indicates that a typo was made in Tables F.4 and F.5 regarding the unit; "ug/mg" should actually be "mg/kg".  | no                       | no      |
| 7  | Baseline Risk Assessment | The 1992 Baseline Risk Assessment may be outdated based on current site conditions for consideration in the final remedy.  | no                       | no      |

**Notes**

ADEQ - Arizona Department of Environmental Quality  
 ATP - Acid Treatment Plant  
 COP - City of Phoenix  
 EPA - Environmental Protection Agency  
 GAC - Granular Activated Carbon  
 IGWTP - Integrated Groundwater Treatment Plant  
 MCL - Maximum Contaminant Level  
 PQGWWP - Poor Quality Groundwater Withdrawal Permit  
 RA - Risk Assessment  
 RI - Remedial Investigation  
 SVE - Soil Vapor Extraction  
 SWPL - Southwest Parking Lot area  
 TCE - Trichloroethene  
 VOC - Volatile Organic Compounds

OCC - Old Crosscut Canal  
 VC - Vinyl Chloride

**TABLE 9**  
**FOLLOW-UP ACTIONS AND RECOMMENDATIONS**

| Reference Number*        | Follow-up Actions/Recommendations   | Responsible Party | Oversight Agency | Completion Date |
|--------------------------|---|-------------------|------------------|-----------------|
| <b>Follow-Up Actions</b> |   |                   |                  |                 |
| 1                        | ADEQ anticipates that the source area extraction system will approach the limits of effective mass reduction in the source area in the near future. ADEQ believes it would be prudent to begin evaluation of alternative treatment technologies for DNAPL in fractured bedrock. If the source area were effectively reduced, it may greatly reduce the long term operation and monitoring of the current pump and treat system. | Motorola          | ADEQ             | on-going        |
|                          | Source area well MP-03 should be added to the monitoring plan and sampled annually.   | Motorola          | ADEQ             | on-going        |
| 2                        | An analysis and explanation of the DM606 hydraulic and water quality data should be provided.   | Motorola          | ADEQ             | on-going        |
| 3                        | TCE trends in wells DM306, DM305, DM307, DM312, and DM313 should be closely monitored and discussed in future Effectiveness Reports.  | Motorola          | ADEQ             | on-going        |
|                          | Extraction well DM313 should be put back into operation.  | Motorola          | ADEQ             | 11/02/2001      |
|                          | If increasing TCE trends are observed in extraction well DM312 (exceeding the MCL), this well should also be put back into operation.   | Motorola          | ADEQ             | when required   |
|                          | Operation of extraction wells (e.g., DM306) in cyclic mode indicates that the system may be entering a new phase of operation. A plan that addresses current and future extraction well rate changes and their affect on the OU1 system and bedrock capture should be developed and submitted (see (8) below).  | Motorola          | ADEQ             | 03/29/2002      |
| 4                        | An analysis and explanation of the increasing TCE concentrations in the shallow bedrock ports of DM603 and DM605 should be provided.  | Motorola          | ADEQ             | 03/29/2002      |
| 5                        | A plan should be provided that includes an analysis and evaluation of the current downgradient monitoring well network.   | Motorola          | ADEQ             | 03/29/2002      |
|                          | A plan to ensure adequate future downgradient monitoring with the addition of new groundwater monitoring wells, if determined necessary (see (8) below) should be submitted. The plan should also address the potential changes in bedrock extraction as water levels continue to decline.  | Motorola          | ADEQ             | 03/29/2002      |
| 6                        | An analysis and explanation of the TCE concentrations in wells EW18 and DM125 should be provided.   | Motorola          | ADEQ             | 03/29/2002      |
|                          | Groundwater monitor well DM26 should be added to the current OU1 network and monitored annually.  | Motorola          | ADEQ             | on-going        |
| 7                        | VC should be closely monitored and discussed in future Effectiveness Reports. VC should be added to the OU1 COCs.   | Motorola          | ADEQ             | on-going        |

**TABLE 9**  
**FOLLOW-UP ACTIONS AND RECOMMENDATIONS**

| Reference Number*        | Follow-up Actions/Recommendations   | Responsible Party | Oversight Agency | Completion Date |
|--------------------------|---|-------------------|------------------|-----------------|
| <b>Follow-Up Actions</b> |   |                   |                  |                 |
| 8                        | A plan should be provided that addresses the following:<br>a. An updated conceptual site model (CSM) that incorporates dewatering of the alluvium. The CSM should address effectiveness of bedrock capture as the alluvium is dewatered. It may be useful to update the 1994 numeric model to aid in the analysis of the system.<br>b. Any OU1 design changes necessary to maintain capture, especially in bedrock.<br>c. Any OU1 monitoring well network changes necessary to assess the performance of the system as conditions change.   | Motorola          | ADEQ             | 03/29/2002      |
| 9                        | Motorola should provide documentation as to why an SVE system was not installed or required at the ATP.   | Motorola          | ADEQ             | 03/29/2002      |
| 10                       | The SVE system within the Courtyard should be operated in a cyclic mode. Cyclic operation entails turning the system on and off for short periods of time to allow equilibration of the subsurface vapors and flow pathways in an effort to remove the remaining low concentrations of VOCs. Cyclic operation will entail two weeks of system operation, followed by two weeks off for flow pathway equilibrium. Each time the SVE system is restarted, a vapor sample should be collected and analyzed. Once two consecutive vapor samples are near or below the laboratory reporting limits, after surging has begun, Motorola should collect confirmatory soil boring samples. Prior to conducting any work, Motorola should submit a work plan to ADEQ. | Motorola          | ADEQ             | 03/29/2002      |
| 11                       | Confirmatory soil samples should be collected in the areas impacted by the SVE system at the SWPL area. Prior to conducting any work, Motorola should submit a work plan to ADEQ.   | Motorola          | ADEQ             | 03/29/2002      |
| 12                       | ATSDR has plans to conduct a Site Review and Update for the 52nd Street Superfund Site.   | ATSDR             | ADEQ & EPA       | NA              |
| 13                       | Motorola should develop a plan to notice Mr. Morgan (or current owner), gain access to the well, sample on a periodic basis, provide analytical results to Mr. Morgan (or current owner), and take other actions, if necessary.   | Motorola          | ADEQ             | on-going        |
| 14                       | ATSDR is currently assessing the well surveys that have been conducted at the Motorola 52nd Street Site. A well use survey should also be conducted within the Site. If the results of the survey confirms future use of "exempt" wells by property owners, institutional controls should be considered.  | Motorola & ATSDR  | ADEQ & EPA       | NA              |
| 15                       | ATSDR should investigate the status of the Willis well during their next Site Review and Update.  | ATSDR             | ADEQ             | NA              |

**TABLE 9**  
**FOLLOW-UP ACTIONS AND RECOMMENDATIONS**

| Reference Number*        | Follow-up Actions/Recommendations  | Responsible Party | Oversight Agency | Completion Date |
|--------------------------|--|-------------------|------------------|-----------------|
| <b>Follow-Up Actions</b> |  |                   |                  |                 |
| 16                       | Motorola should conduct semiannual inspections of the Turnage well to ensure that the well has not been tampered with. Additionally, the owner of the well must be identified and Motorola should consider transferring ownership since they are responsible for ensuring no one has access to the well. If the Turnage well has no use to the 52nd Street Site, Motorola should consider abandoning the well. | Motorola          | ADEQ             | 03/29/2002      |
| 17                       | ADHS should determine if 1,1-DCE, and any other VOCs, are still a concern for indoor air exposure.   | ADHS              | ADEQ             | NA              |
| 18                       | The IGWTP secondary containment system's protective coating should be repaired to fix all areas that were cracking, peeling, and/or lifting up.  | Motorola          | ADEQ             | 03/29/2002      |
| 19                       | The PVC valve at the Liquid Chlorine Feed system should be replaced.   | Motorola          | ADEQ             | 03/29/2002      |
| 20                       | The non-functioning pressure gauge on Air Stripper AS-201 should be replaced.  | Motorola          | ADEQ             | 03/29/2002      |
| 21                       | Water that has accumulated in well vault MP-11 should be removed. Motorola should ensure that O&M of the well vaults are maintained to prevent any potential problems due to rainfall/runoff.  | Motorola          | ADEQ             | on-going        |
| <b>Recommendations</b>   |  |                   |                  |                 |
| 1                        | The treated effluent monitoring plan should be made available on-site for future inspections.  | Motorola          | ADEQ             | NA              |
| 2                        | The PQGWWP should be available on-site for future inspections.   | Motorola          | ADEQ             | NA              |
| 3                        | The IGWTP effluent data and air emissions data should be available on-site for future inspections.   | Motorola          | ADEQ             | NA              |
| 4                        | Because Motorola does not own the entire facility, it is highly recommended that the perimeter fencing be fully extended around the IGWTP. In addition, all access gates to the system should be kept locked when unattended by authorized OU1 Maintenance personnel.  | Motorola          | ADEQ             | NA              |
| 5                        | Perimeter signs that warns of unauthorized entry should be placed around all sides of the perimeter fence around the IGWTP.  | Motorola          | ADEQ             | NA              |
| 6                        | The SWPL RI report should be amended to correct the "unit" typos in Tables F.4 and F.5, and the revised sections resubmitted to ADEQ.  | Motorola          | ADEQ             | NA              |

**TABLE 9**  
**FOLLOW-UP ACTIONS AND RECOMMENDATIONS**

| Reference Number*      | Follow-up Actions/Recommendations   | Responsible Party      | Oversight Agency | Completion Date |
|------------------------|---|------------------------|------------------|-----------------|
| <b>Recommendations</b> |   |                        |                  |                 |
| 7                      | Because decrease in contaminant concentrations may have occurred, which ultimately reduces risk, it is recommended that the 1992 baseline risk assessment be updated to reassess these new site conditions, prior to the selection of the final remedy. Reduction in risk would play an important role in the nature and type of the final remedy that is selected. | Motorola, ADEQ, & ADHS | ADEQ             | NA              |

**Notes**

\* Refer to Table 8 for reference number.

ADEQ - Arizona Department of Environmental Quality

ADHS - Arizona Department of Health Services

ATP - Acid Treatment Plant

COC - Contaminant of Concern

COP - City of Phoenix

EPA - Environmental Protection Agency

IGWTP - Integrated Groundwater Treatment Plant

MCL - Maximum Contaminant Level

O&M - Operation and Maintenance

OU1 - Operable Unit 1

PQGWWP - Poor Quality Groundwater Withdrawal Permit

PVC - Polyvinyl Chloride

SVE - Soil Vapor Extraction

SWPL - Southwest Parking Lot

TCE - Trichloroethene

VOC - Volatile Organic Compounds

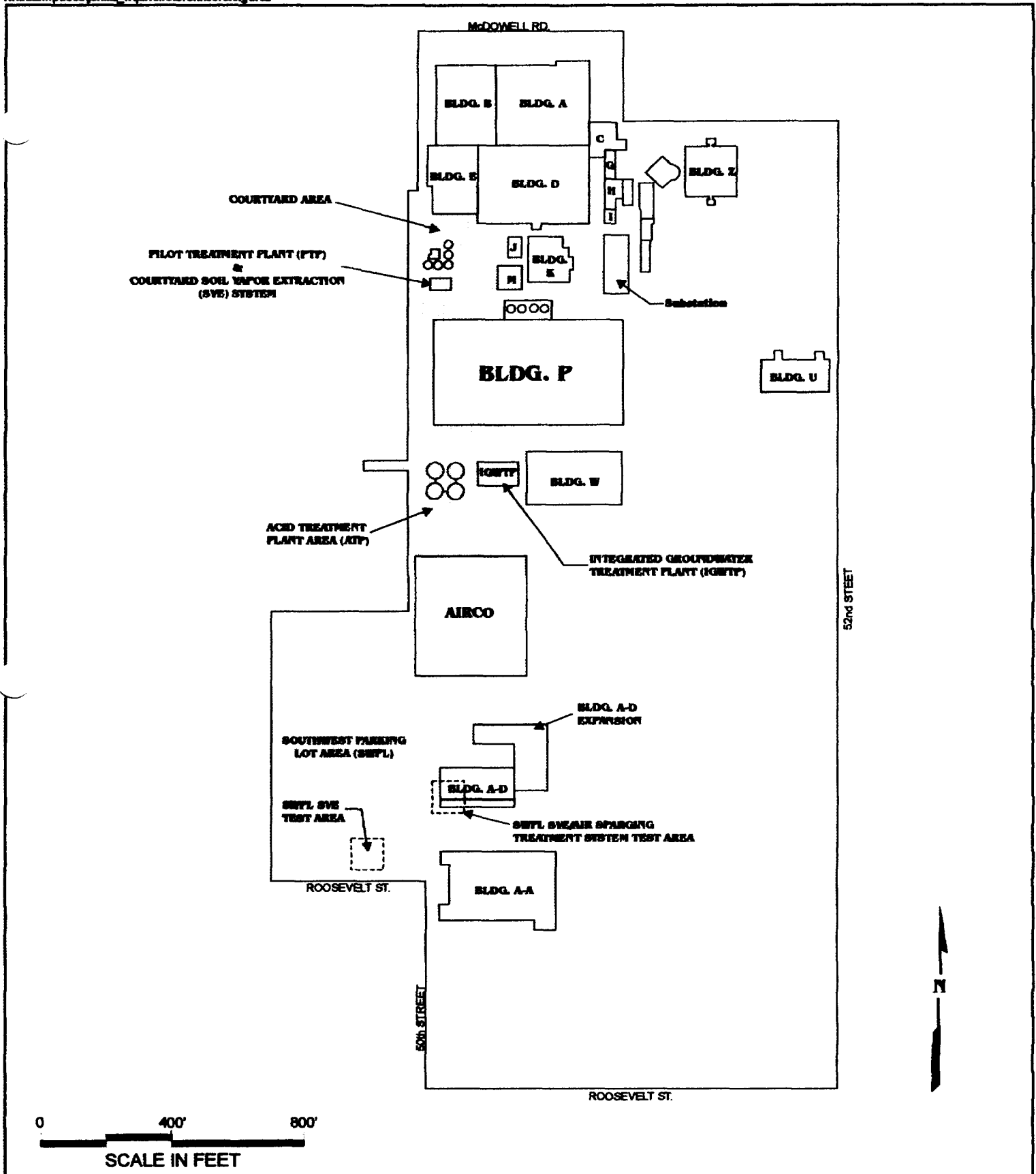
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-

[illegible]

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**SITE PLAN**  
**MOTOROLA 52nd STREET PLANT**  
**PHOENIX, ARIZONA**

Figure

**2**

Drawn  
Daniel L. Kudfeld

Project Number  
000027.0000

Approved  
JSK

Date  
07/12/2001

McDOWELL RD.

ROOSEVELT ST.

38th ST.

38th ST.

GRAND CANAL

40th ST.

ROOSEVELT ST.

GARFIELD ST.

WASHINGTON ST.

VAN BUREN ST.

MORGAN  
(40200)

TURMAN  
(TURMA)

ARIZONA STATE  
LAND DEPT.  
(AZBLD)

WELLS

MOTOROLA

NATL GUARD #2  
(AZNSD #2)

NATL GUARD #1  
(AZNSD #1)

POLK ST.

LANHAM  
(40 & VS)

OLD CROSSCUT CANAL

62nd ST.



0 1000' 2000'  
SCALE IN FEET

- SINGLE COMPLETION MONITOR WELL
- MULTIPLE COMPLETION MONITORING WELL
- PRIVATE WELL

NOTE: 1. ABBREVIATION OF NAMES OF  
WELLS IN PARENTHESES  
2. NOT ALL LOCATIONS OF ISO-SITE  
WELLS AND BORDERS ARE SHOWN



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LOCATION OF ON-SITE & OFF-SITE  
WELLS, MONITORED DURING RI/FS  
MOTOROLA 52nd STREET  
PHOENIX, ARIZONA

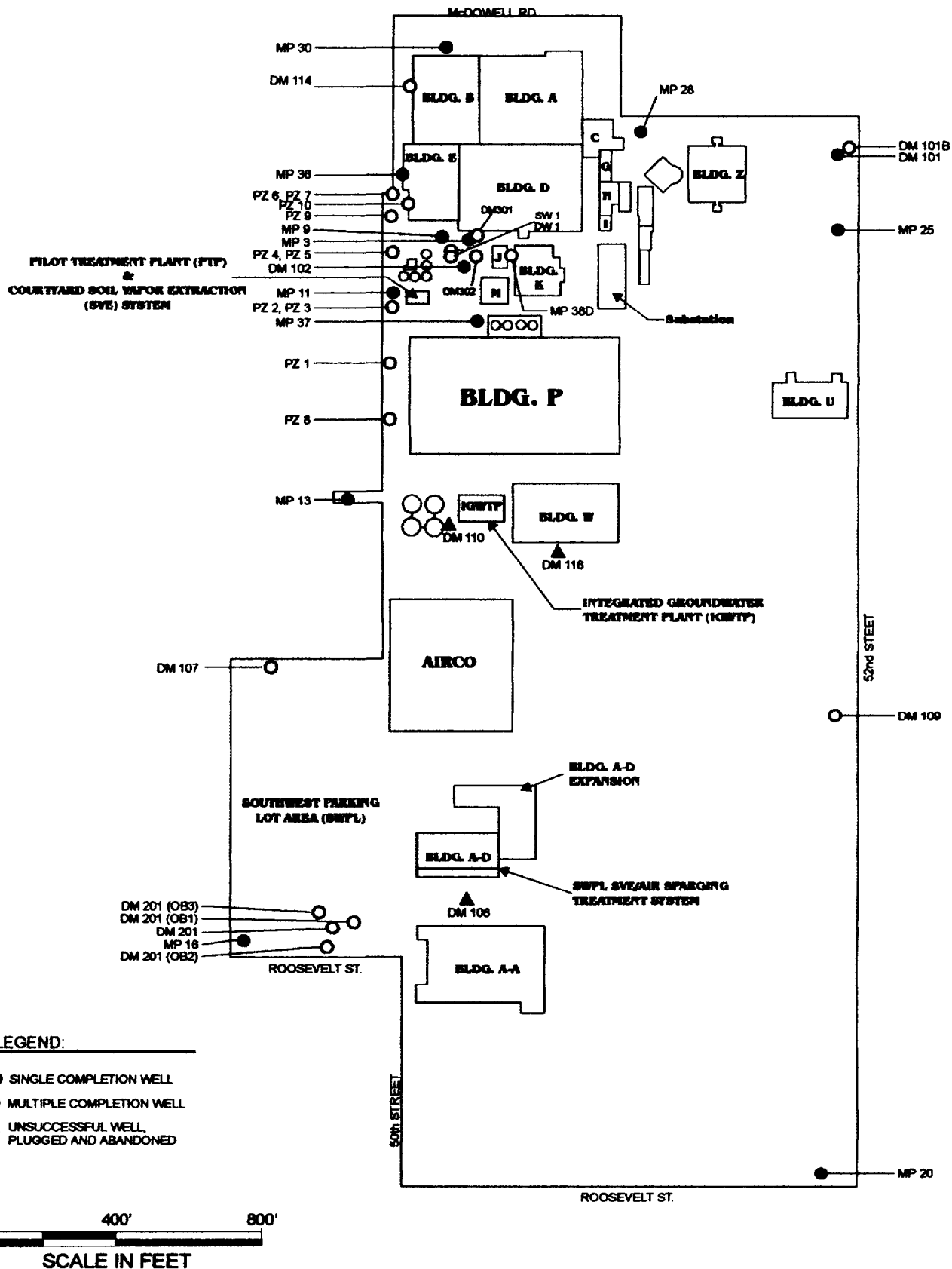
Project Number  
660027.0600

Approved  
JSK

Date  
07/12/2001

Figure

3



**LOCATIONS OF ON-SITE  
WELLS MONITORED DURING RI/FS  
MOTOROLA 52nd STREET PLANT  
PHOENIX, ARIZONA**

Figure

**4**

Date  
07/12/2001

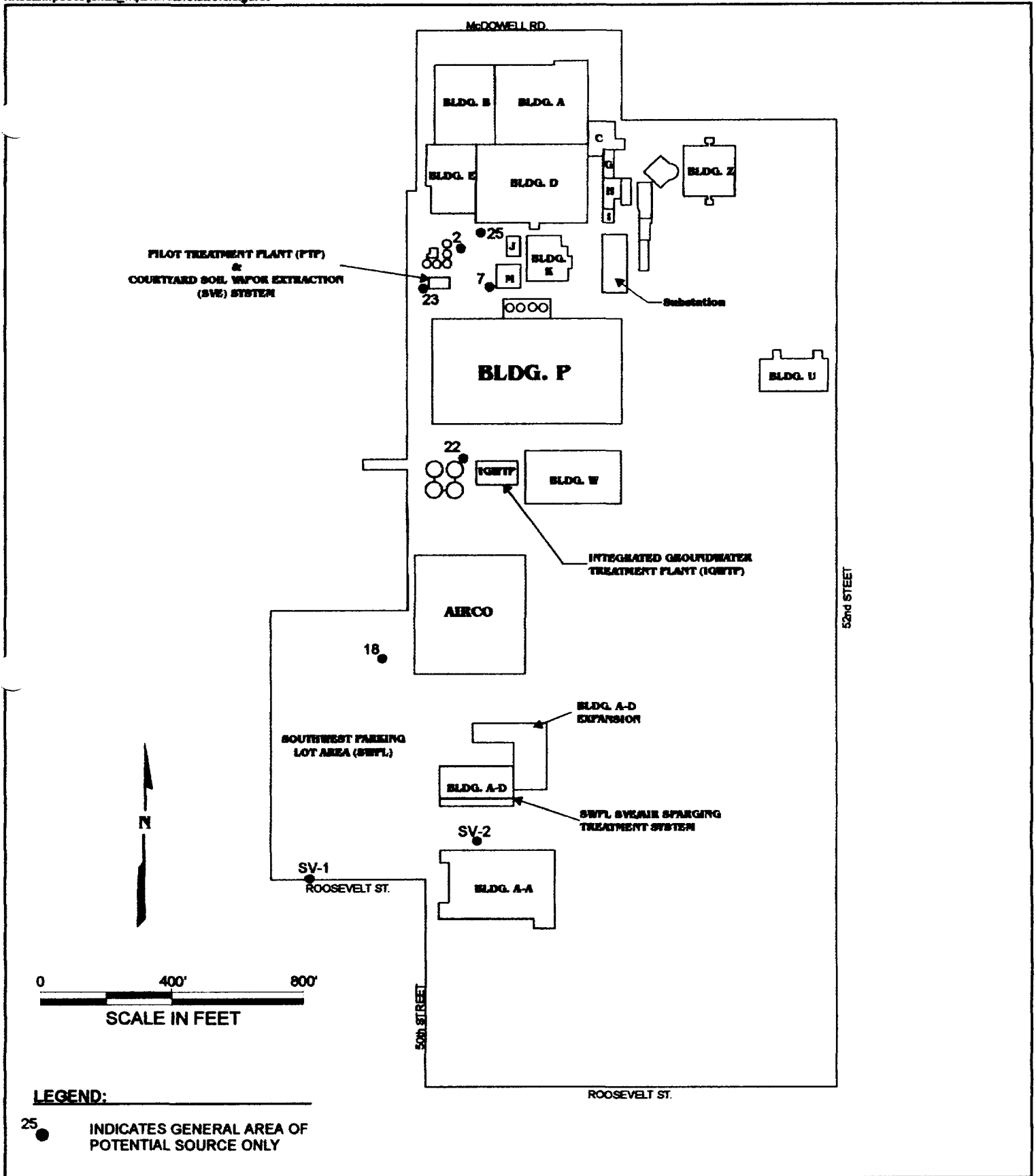


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Daniel L. Kudfield

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000027.0000

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JJK



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Daniel L. Kadfield

**LOCATIONS OF POTENTIAL  
PRINCIPLE SOURCES  
MOTOROLA 52nd STREET PLANT  
PHOENIX, ARIZONA**

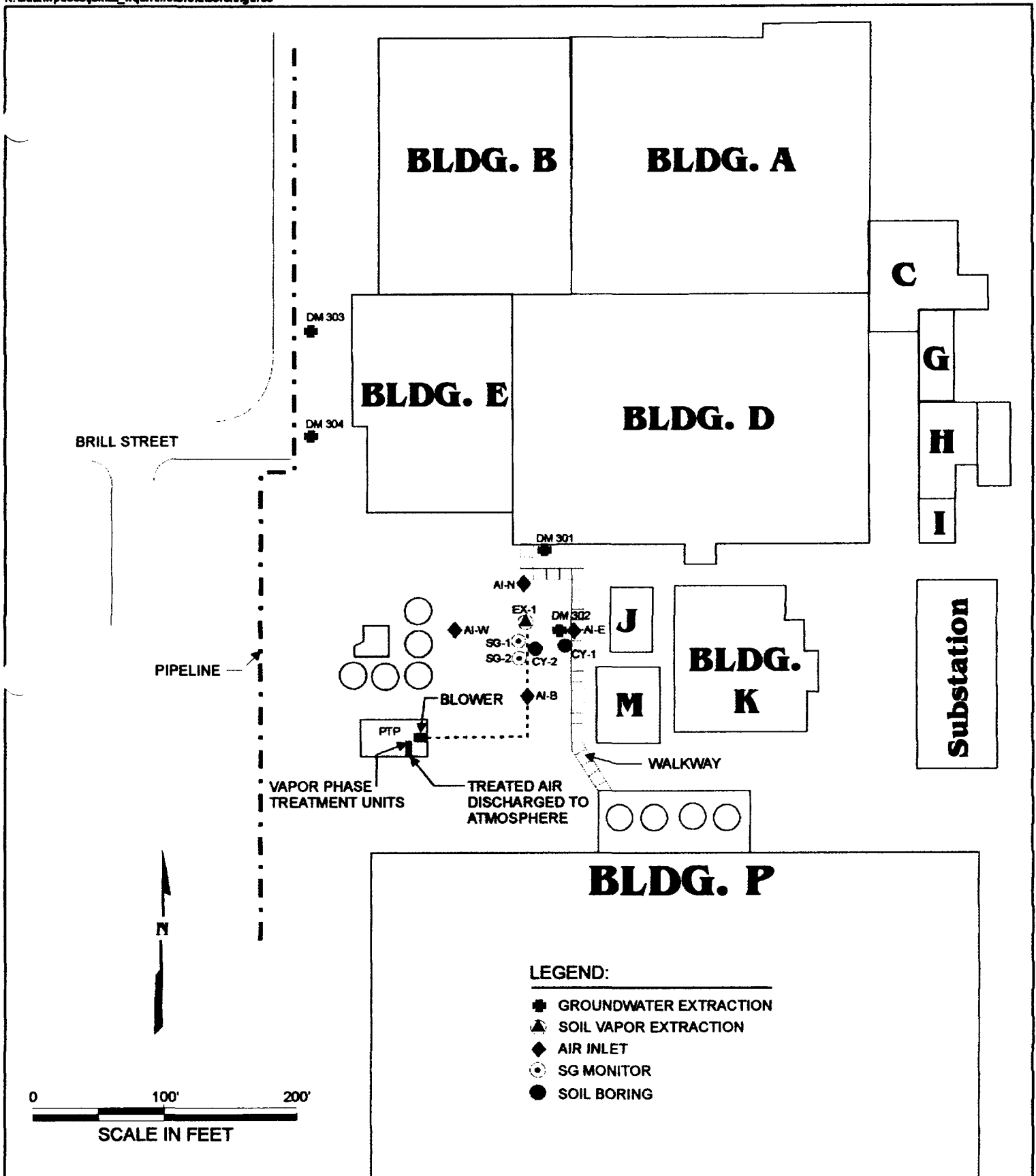
Project Number  
990027.0800

Approved  
JSK

Figure

**5**

Date  
07/12/2001



**SITE PLAN**  
**COURTYARD SVE PILOT PROGRAM**  
 MOTOROLA 52nd STREET PLANT  
 PHOENIX, ARIZONA

Figure

**6**



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 660027.0600

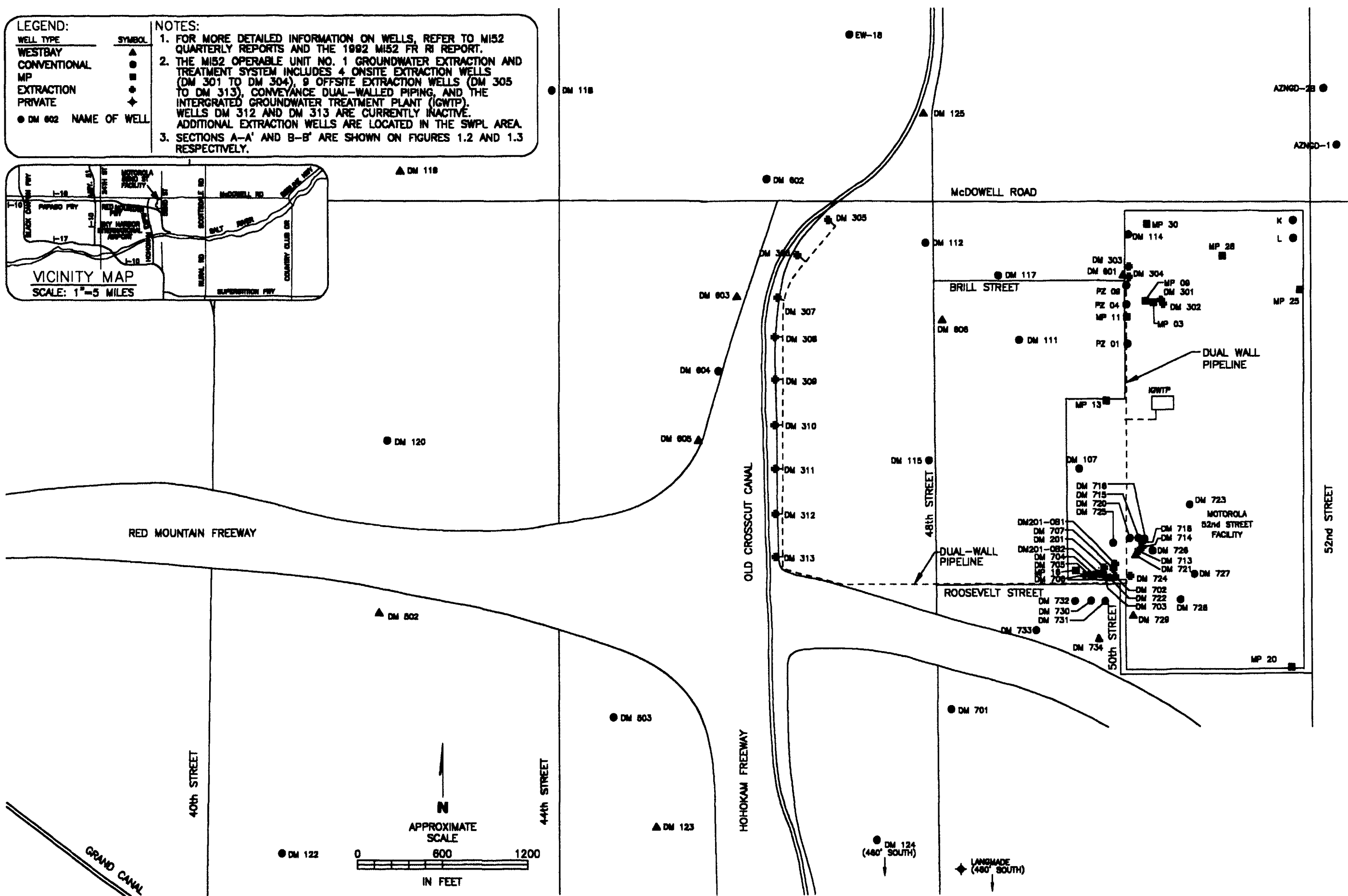
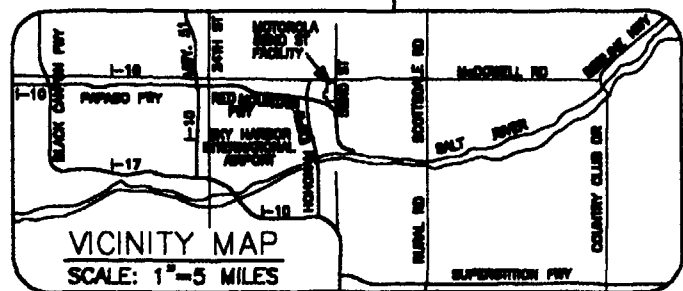
Approved  
 JSK

Date  
 07/12/2001

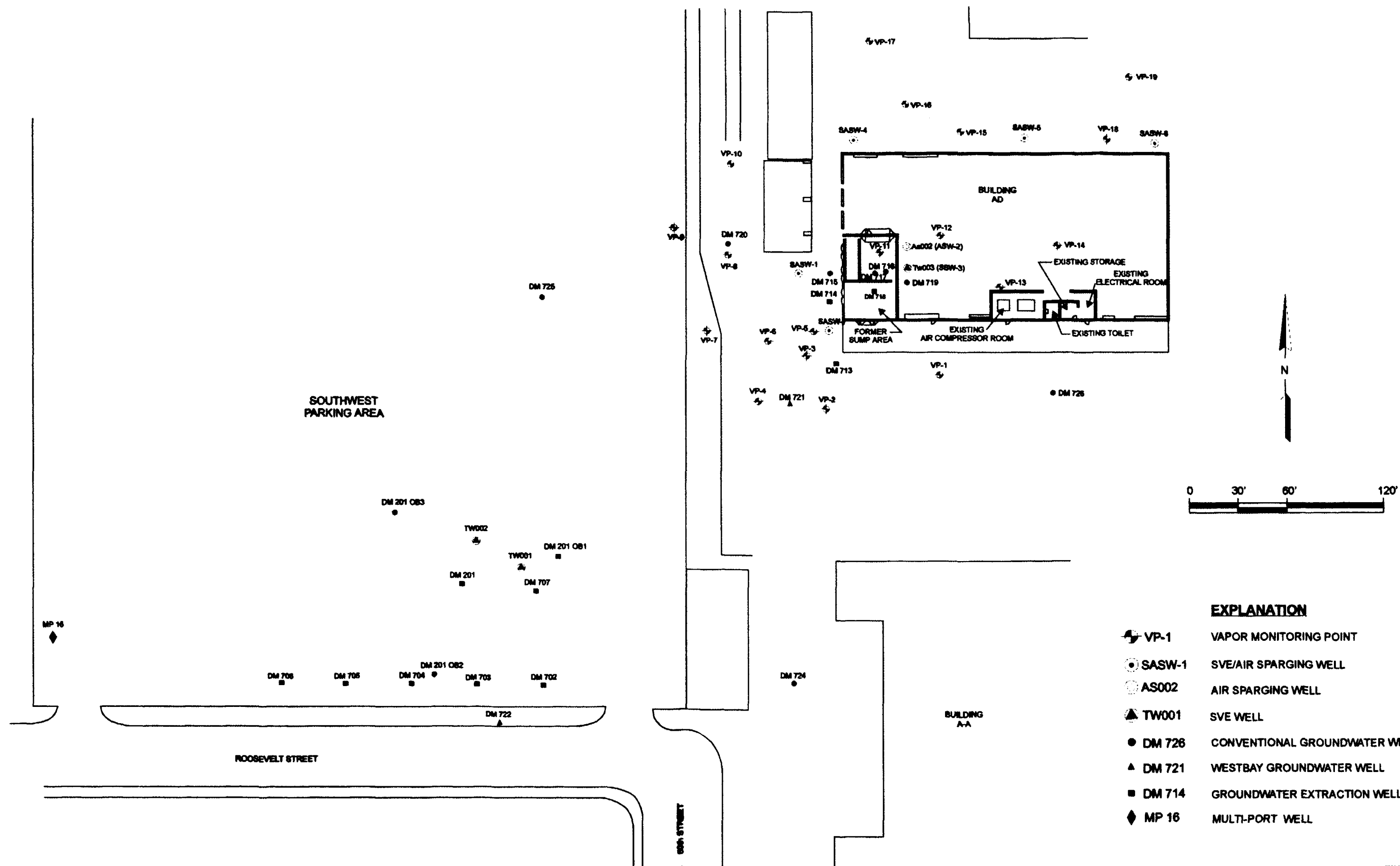
CADD FILE: N:\DATA\WPDGCS\JSA\AZ\_MQARF\MOTOROLA\FIGURE7

| LEGEND:      |              |
|--------------|--------------|
| WELL TYPE    | SYMBOL       |
| WESTBAY      | ▲            |
| CONVENTIONAL | ●            |
| MP           | ◆            |
| EXTRACTION   | ◆            |
| PRIVATE      | ◆            |
| ● DM 602     | NAME OF WELL |

- NOTES:
1. FOR MORE DETAILED INFORMATION ON WELLS, REFER TO M152 QUARTERLY REPORTS AND THE 1992 M152 FR RI REPORT.
  2. THE M152 OPERABLE UNIT NO. 1 GROUNDWATER EXTRACTION AND TREATMENT SYSTEM INCLUDES 4 ONSITE EXTRACTION WELLS (DM 301 TO DM 304), 9 OFFSITE EXTRACTION WELLS (DM 305 TO DM 313), CONVEYANCE DUAL-WALLED PIPING, AND THE INTEGRATED GROUNDWATER TREATMENT PLANT (IGWTP). WELLS DM 312 AND DM 313 ARE CURRENTLY INACTIVE. ADDITIONAL EXTRACTION WELLS ARE LOCATED IN THE SWPL AREA.
  3. SECTIONS A-A' AND B-B' ARE SHOWN ON FIGURES 1.2 AND 1.3 RESPECTIVELY.



|   |   |  |  |  |  |                                     |
|---|---|--|--|--|--|-------------------------------------|
| <b>Harding E.S.E.</b><br>A MACTEC Company<br>6800 E. Thomas Rd. Suite 202<br>Phoenix, Arizona 85031 | <b>OU1 MONITORING<br/>&amp; EXTRACTION WELLS<br/>LOCATION MAP</b> |  | <b>MOTOROLA - SWPL<br/>52nd STREET FACILITY<br/>PHOENIX, ARIZONA</b> |  | DATE: 07/12/01<br>DRAWN BY:<br>PROJECT No. 680027.0600 | SCALE: AS SHOWN<br>FIGURE: <b>7</b> |
|---|---|--|--|--|--|-------------------------------------|

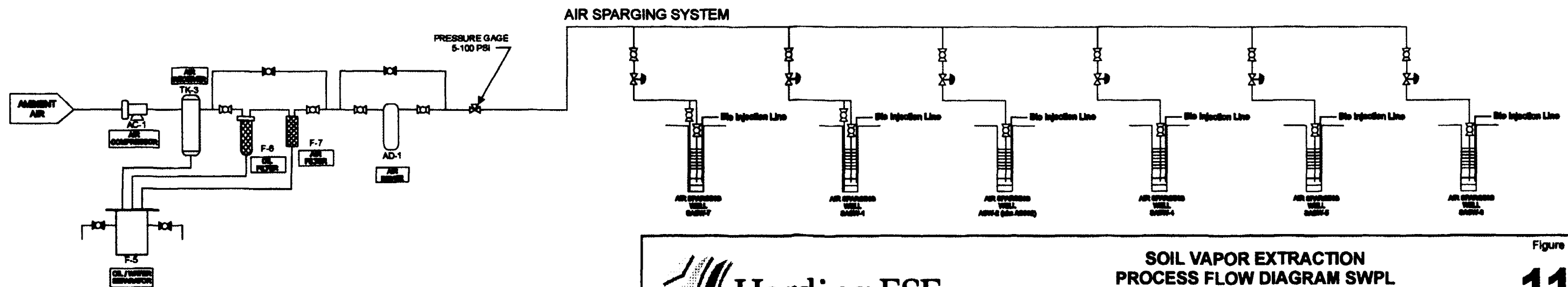
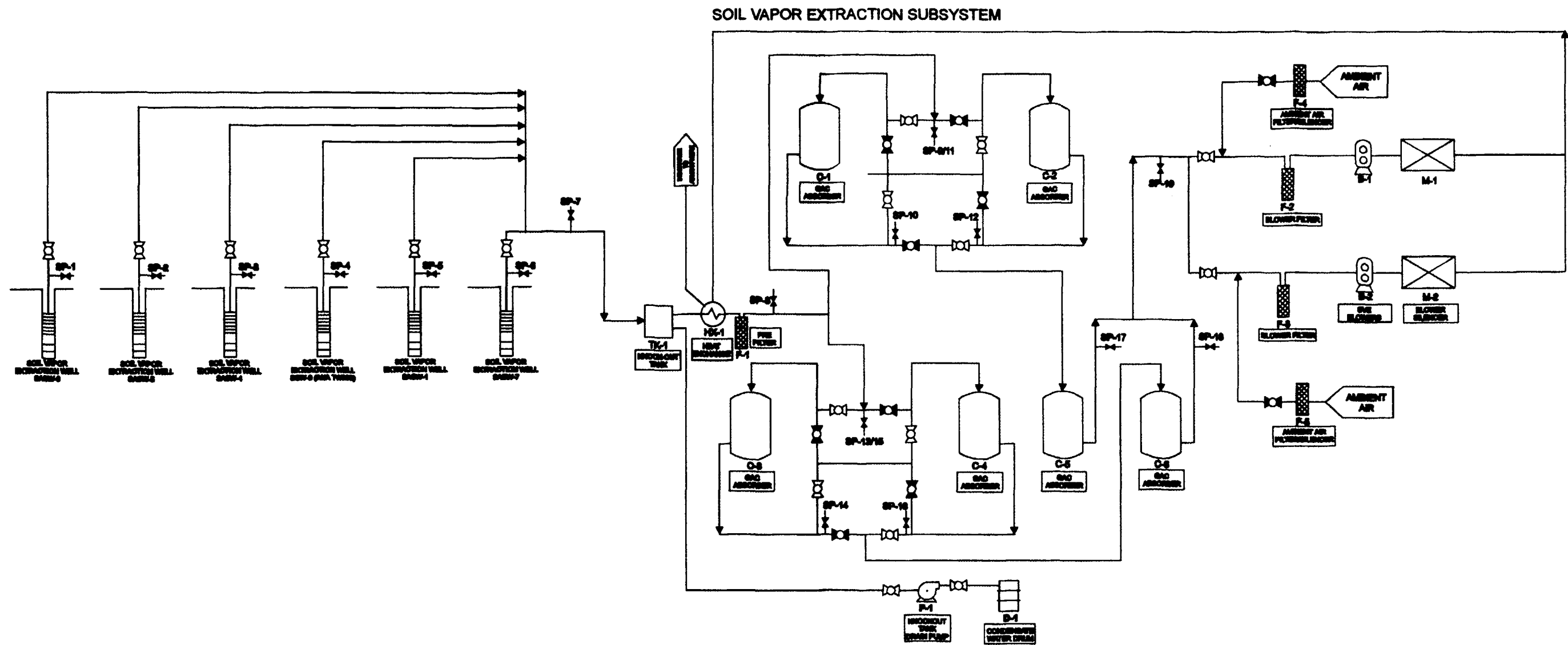




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A MACTEC COMPANY

**Date**  
**07/12/2001**





## Appendix

## **LIST OF APPENDICES**

|                    |  |
|--------------------|--|
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| <b>Appendix F.</b> | <b>Motorola and ADEQ Correspondence Regarding No Further Action (NFA) Determinations for the CYSVE and the SWPL SVE Treatment Systems</b>                      |
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| <b>Appendix I.</b> | <b>August 7, 2000 Honeywell Letter on OU1 Effectiveness and Motorola's June 18, 2001 Letter Response</b>   |
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| <b>Appendix L.</b> | <b>Graphical Representation of Groundwater Analytical Data Over Time</b>   |
| <b>Appendix M.</b> | <b>Hydrographs of Groundwater Elevation in Key Wells Over Time</b>   |

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**APPENDIX A**  
**LIST OF DOCUMENTS REVIEWED**

**Document Title Description**

- Water Quality Data Through 6/89, Long-Term GW Sampling Program, January 1990.
- Draft Technical Memorandum (revised) Transport Calibration, May 1993
- Results of Hydrogeologic Investigation of Subsurface Bedrock Conditions, February 1994.
- Final OU1 Groundwater Monitoring Plan, January 1998.
- Draft Soil Vapor Extraction Design Basis, March 1990.
- Bedrock Data Report, February 1991.
- Final Remedy Remedial Investigation Report volumes 1-4, February 1992.
- Operable Unit Baseline Report, April 1992
- Standard Reference Document for Courtyard SVE Pilot Program, May 1992.
- SVE Pilot Program, Courtyard Area, December 1994
- Baseline Risk Assessment, November 1992.
- Southwest Parking Lot Remedial Investigation Report, May 1993.
- Fourth Quarter and 1994 Annual Report, January 1995.
- Soil Vapor Extraction Pilot Program Summary Report, Courtyard Area , December 1994.
- SVE Report #1, January 1995
- Interim Remedy Feasibility Study, November 1993
- Supplement to Interim Feasibility Study Report, December 1993.
- Groundwater Treatment Plant Specifications, January 1991.
- Air Sparging/SVE Pilot Program, SWPL, April 1995
- SWPL Remediation System - Operation Plan, March 1996
- SWPL Remediation Design Report, April 1996
- SVE Quarterly Reports, 1995 to 2000.
- Final Construction Specifications SWPL; March 1995 & February 1996
- Record of Decisions: OU1
- Operable Unit 1 RAP Draft June 1988
- Letter of Determination, September 1988
- Comments of OU1 RAP
- Final OU1 Consent Order, June 1989
- Risk Assessment Final, November 1992.
- Ecological Risk Assessment Final, March 1992.
- Fourth Quarter Report and 1995 Annual Report PQGWWP No. 59-530577 Vols. 1 and 2, January 1996.
- First Quarter 1996 Report PQGWWP No. 59-530577, April 1996.
- 2<sup>nd</sup> Quarter 1996 Report PQGWWP No. 59-530577, August 1996.
- 3<sup>rd</sup> Quarter 1996 Report PQGWWP No. 59-530577, October 1996.
- Request for Modification, PQGWWP 59-530577, January 1998
- Semi-Annual Progress Report first half 1999, PQGWWP 59-530577, July 1999

**APPENDIX A (CON'T)**  
**LIST OF DOCUMENTS REVIEWED**

**Document Title Description**

- Semi-Annual Progress Report 2000-1, PQGWWP 59-530577, July 2000
- 1st thru 4th Quarter 1995 Quarterly Data Submittal
- 1st thru 4th Quarter 1996 Quarterly Data Submittal
- 1st thru 4th Quarter 1997 Quarterly Data Submittal
- 1st thru 4th Quarter 1998 Quarterly Data Submittal
- 1st thru 4th Quarter 1999 Quarterly Data Submittal
- 1st thru 2nd Quarter 2000 Quarterly Data Submittal
- Semi-Annual Progress (Groundwater) Reports: 1995, 1996, 1997, 1998, 1999, & 2000.
- Results of Hydrogeologic Investigation of Subsurface Bedrock Conditions, East Washington WQARF Site, February 1994
- Technical Memorandum, The Bedrock Models for Motorola, Inc., August 1995
- MI32 Model Documentation Report, February 1996
- Allied Signal Inc. Letter; RE: Allied Signal Preliminary Analysis of Motorola Model, December 1996
- Response to Water Level Decline in OU1 Wells, June 1997
- Progress Report SVE System Operations: 1995 to 2000
- Evaluation of Soil Remediation, SVE Courtyard Area, April 1997
- OU1 Effectiveness Reports for Operational Years 1995 to 2000
- EPA Comments on the OU1 Effectiveness Report (1998 Operations), November 1999
- ADEQ Comment on the OU1 Effectiveness Report (1998 Operations), February 2000
- Motorola OU1 Effectiveness Report, 1998 Operations, Responses to EPA Comments, March 2000
- OU1 Five Year Review, September 1995
- Extraction System Maintenance
- Request to Abandon Well DM 201 OB3, SWPL, April 1997
- SVE Remediation System Evaluation Report, SWPL, December 1998
- Motorola; 52<sup>nd</sup> Street Site Operable Unit 1 Extraction System, December 1997
- Correspondence Re: Requests for No Further Action Determination, SWPL.
- EPA Request for Information; RE: Contaminant Transport Modeling, September 1999.
- Motorola, Response to 9/28/99 EPA Letter Requesting Information on Contaminant Transport Modeling, December 1999
- Honeywell, 5-Year Review of OU1, Technical Analysis of OU1 Interim Remedy, August 2000.
- Motorola Letter - RE: 52<sup>nd</sup> Street Site OU1 Five Year Review, March 2001
- Motorola Letter - RE: Concentrations in OU1 Extraction Wells, June 2001
- Motorola Letter - RE: Effectiveness of the OU1 Remedy, June 2001.

**B**



**MOTOROLA**

September 26, 2001

Ms. Kristina Kommalan, Project Manager  
Arizona Department of Environmental Quality  
3033 North Central Avenue  
Phoenix, Arizona 85012

Re: 52<sup>nd</sup> Street Site Operable Unit 1  
Five Year Review

Dear Ms. Kommalan:

At your request, we have prepared that following summary of events related to the potential emission of vinyl chloride from historical operations of the groundwater treatment plant in order to answer questions that were raised from the public at the latest ADEQ/EPA public meeting. All air monitoring that has conducted after the modification to the plant was completed have confirmed that the corrective measures are fully effective and that the system is in compliance with all applicable air pollution control requirements.

On May 10, 1993, as part of its routine air monitoring of the groundwater treatment plant operations at the 52<sup>nd</sup> Street facility, Motorola discovered that there might have been some inadvertent air emissions during the periodic vapor phase carbon regeneration activities. Motorola immediately shut down the plant and commenced an investigation. As a result of this investigation, Motorola determined that the emissions might have exceeded the reportable quantity for vinyl chloride and reported the potential release on May 17, 1993 to the National Response Center, the Arizona Emergency Response Center, the Arizona Department of Environmental Quality (ADEQ), the Maricopa County Division of Air Pollution Control, and the Maricopa County Civil Defense and Emergency Services Department. ADEQ approved Motorola's request to shut down the treatment plant to identify and implement a corrective action.

With ADEQ approval, Motorola brought the plant on-line long enough to collect air quality samples in the immediate vicinity of the groundwater treatment plant and shut the plant down again. Those samples, and subsequent air modeling efforts, indicated that there was no potential exposure above health based levels to any of the plant workers, site workers or the neighboring community.

The groundwater treatment plant treats both groundwater and the air generated in the cleaning process. Groundwater is pumped from the ground and piped to the plant where the VOCs are stripped from the groundwater into the air. The air is then run through large carbon beds which remove the VOCs from the air. When a carbon bed is used up, it is cleaned, or "regenerated". During the regeneration cycles, steam is passed through the carbon bed to remove the captured VOCs. As the steam cools in a condenser, the VOCs and water separate from the air, and the resulting liquid is collected in a tank and shipped off site as hazardous waste. The air is then treated with activated carbon in a smaller secondary system to remove the residual VOCs and vented to the atmosphere.

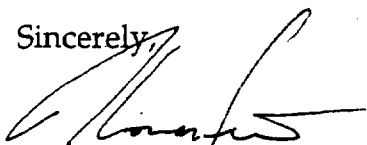
Once this regeneration cycle is complete, air is passed across the carbon bed to cool it down. This "cooling" air used to go from the carbon beds to the secondary air treatment system and then to the atmosphere. As part of its investigation of the system in 1993, Motorola discovered that the increased temperature of the air after it moved through the carbon beds may have decreased the secondary system's ability to capture as much vinyl chloride and, thus, there may have been a release of low concentrations of vinyl chloride to the atmosphere during the May, 1993 regeneration.

With the oversight and cooperation of ADEQ and Maricopa County, Motorola identified the necessary corrections to the groundwater treatment plant by August, 1993. Motorola rerouted the "cool down" air back into the primary carbon beds. This small volume of warm air was then mixed with a large volume of cool air and the mixture was treated with a greater amount of carbon. Air is no longer vented to the atmosphere as part of the regeneration activities. This approach eliminated the potential for emissions during carbon regeneration cycles. After obtaining ADEQ and Maricopa County approval of the corrective action plan, Motorola implemented the corrective measures by October, 1993.

To ensure that the corrective measures were adequate, the modified groundwater treatment plant was gradually brought back on-line during an intensive monitoring and evaluation period. The groundwater treatment plant was fully operational by the end of November 1993. All subsequent monitoring has confirmed that the corrective measures are fully effective and that the system is in compliance with all applicable air pollution control requirements.

If I can be of further assistance, please call.

Sincerely,



Thomas R. Suriano, R.G.  
Manager, Remediation and Due Diligence





# LEGEND:

• DM 602 NAME OF WELL

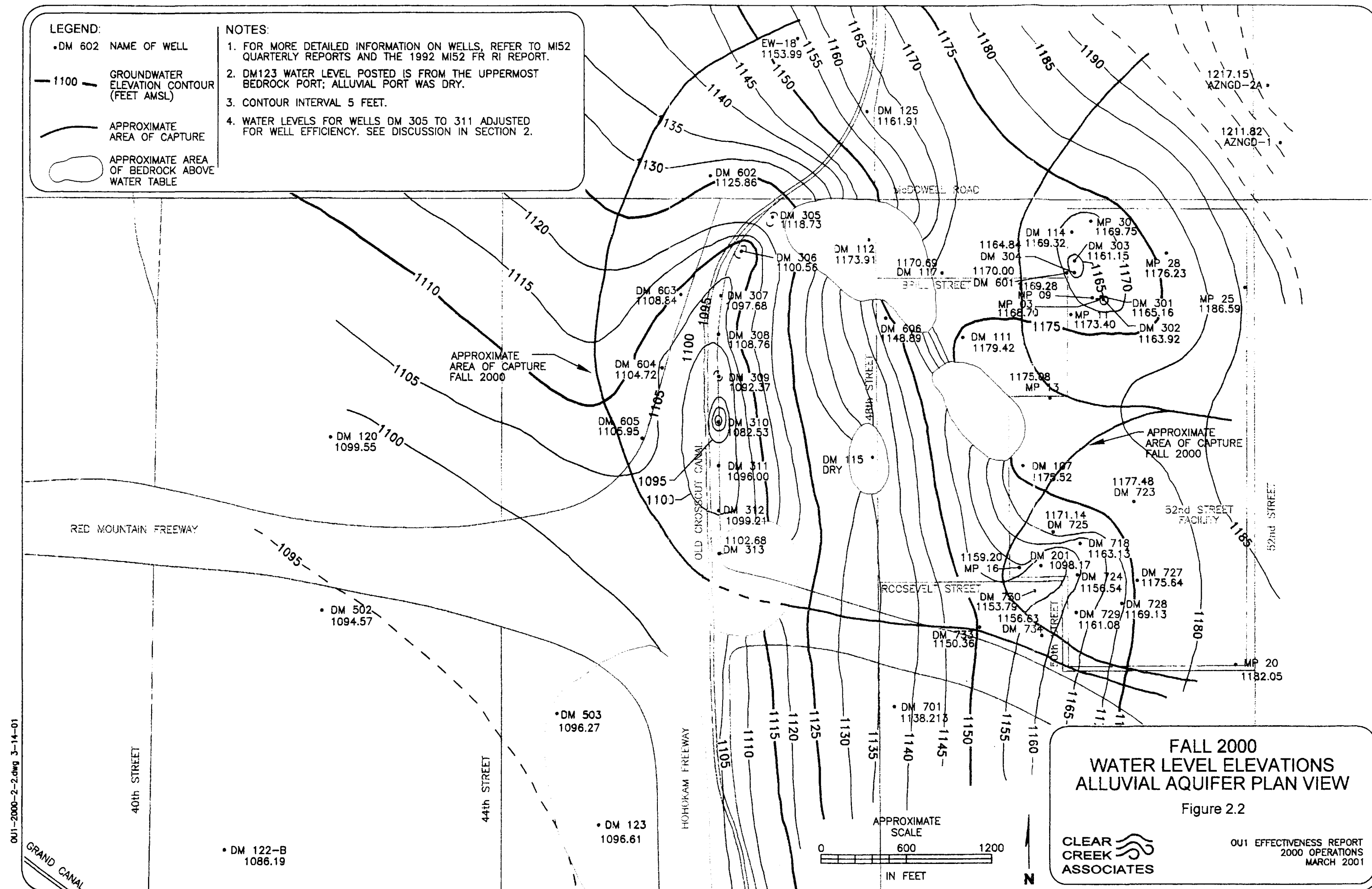
— 1100 —  
GROUNDWATER  
ELEVATION CONTOUR  
(FEET AMSL)

—  
APPROXIMATE  
AREA OF CAPTURE

○  
APPROXIMATE AREA  
OF BEDROCK ABOVE  
WATER TABLE

# NOTES:

1. FOR MORE DETAILED INFORMATION ON WELLS, REFER TO M152 QUARTERLY REPORTS AND THE 1992 M152 FR RI REPORT.
2. DM123 WATER LEVEL POSTED IS FROM THE UPPERMOST BEDROCK PORT; ALLUVIAL PORT WAS DRY.
3. CONTOUR INTERVAL 5 FEET.
4. WATER LEVELS FOR WELLS DM 305 TO 311 ADJUSTED FOR WELL EFFICIENCY. SEE DISCUSSION IN SECTION 2.

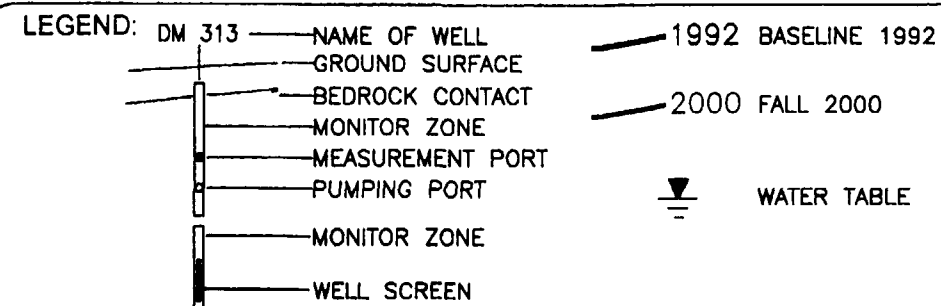
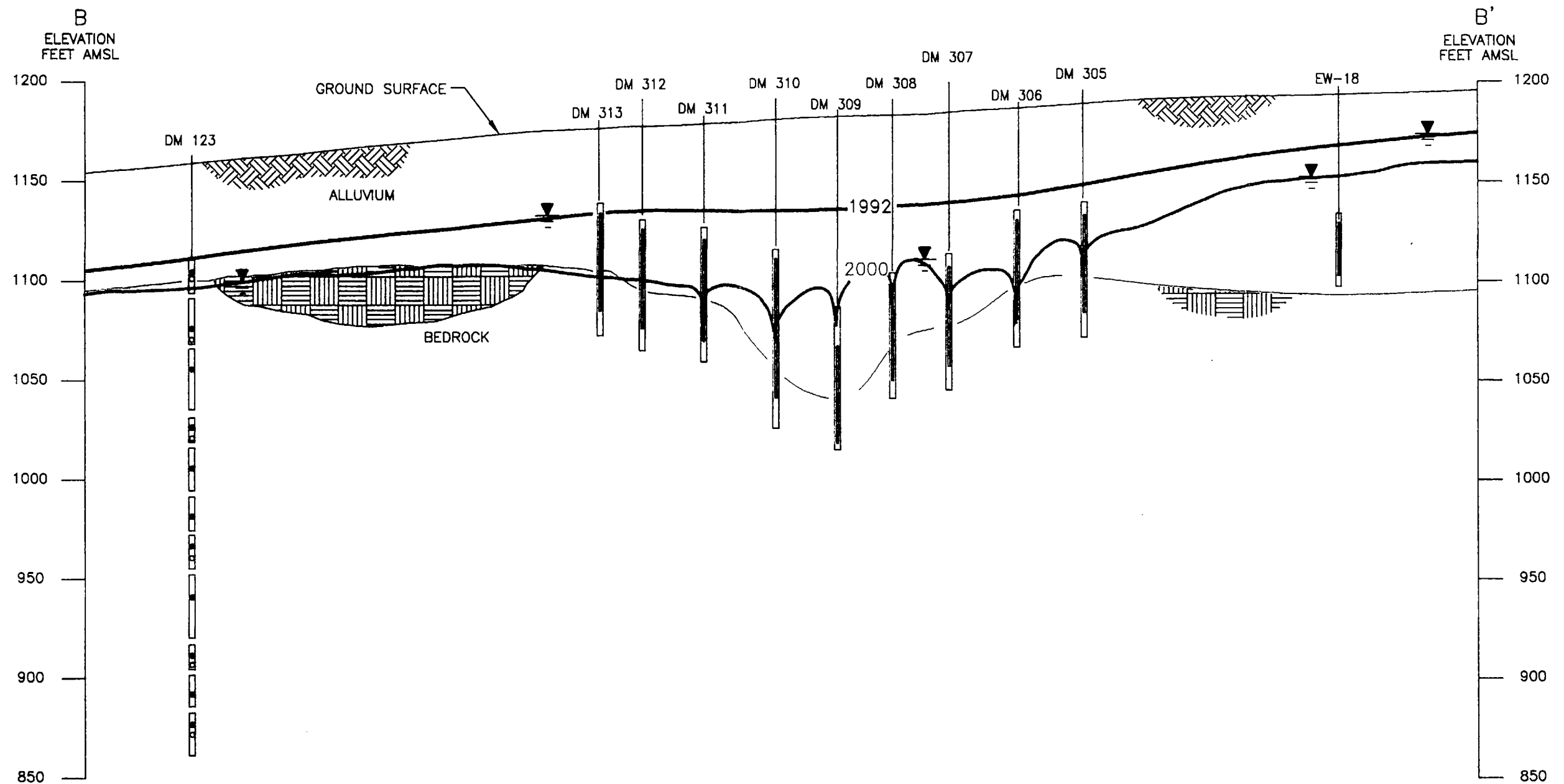


## FALL 2000 WATER LEVEL ELEVATIONS ALLUVIAL AQUIFER PLAN VIEW

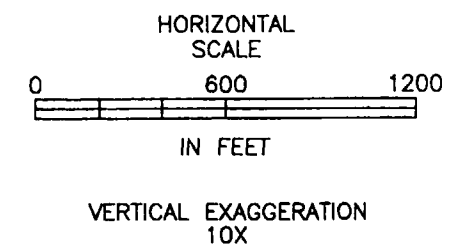
Figure 2.2

CLEAR  
CREEK  
ASSOCIATES

OU1 EFFECTIVENESS REPORT  
2000 OPERATIONS  
MARCH 2001



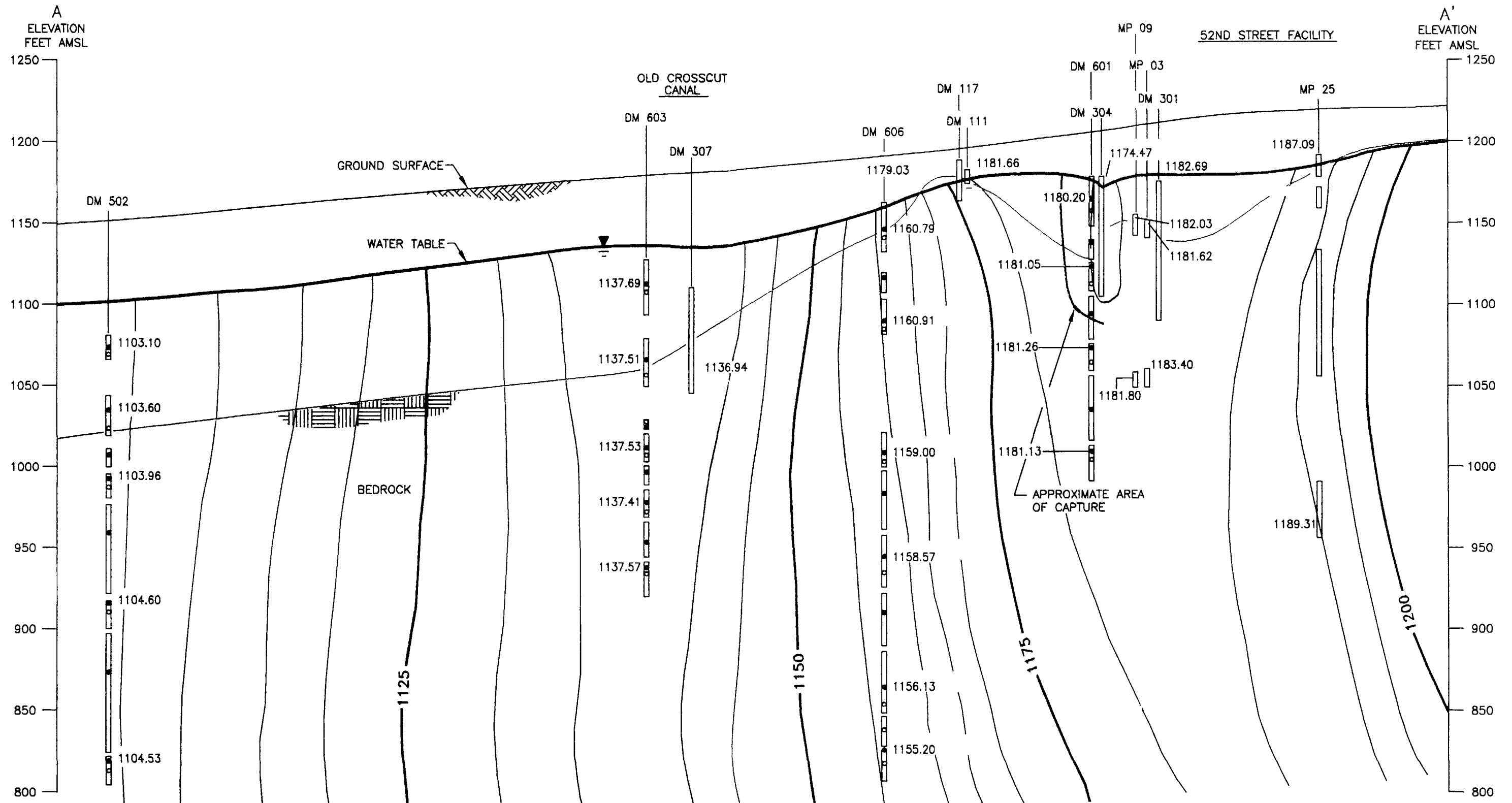
- NOTES:**
1. LOCATION OF SECTION B-B' IS SHOWN ON FIGURE 1.1.
  2. THE 1992 WATER TABLE WAS PLOTTED USING MARCH-MAY 1992 DATA.
  3. DM123 WATER LEVEL POSTED FROM UPPERMOST BEDROCK PORT SINCE ALLUVIAL PORT WAS DRY.

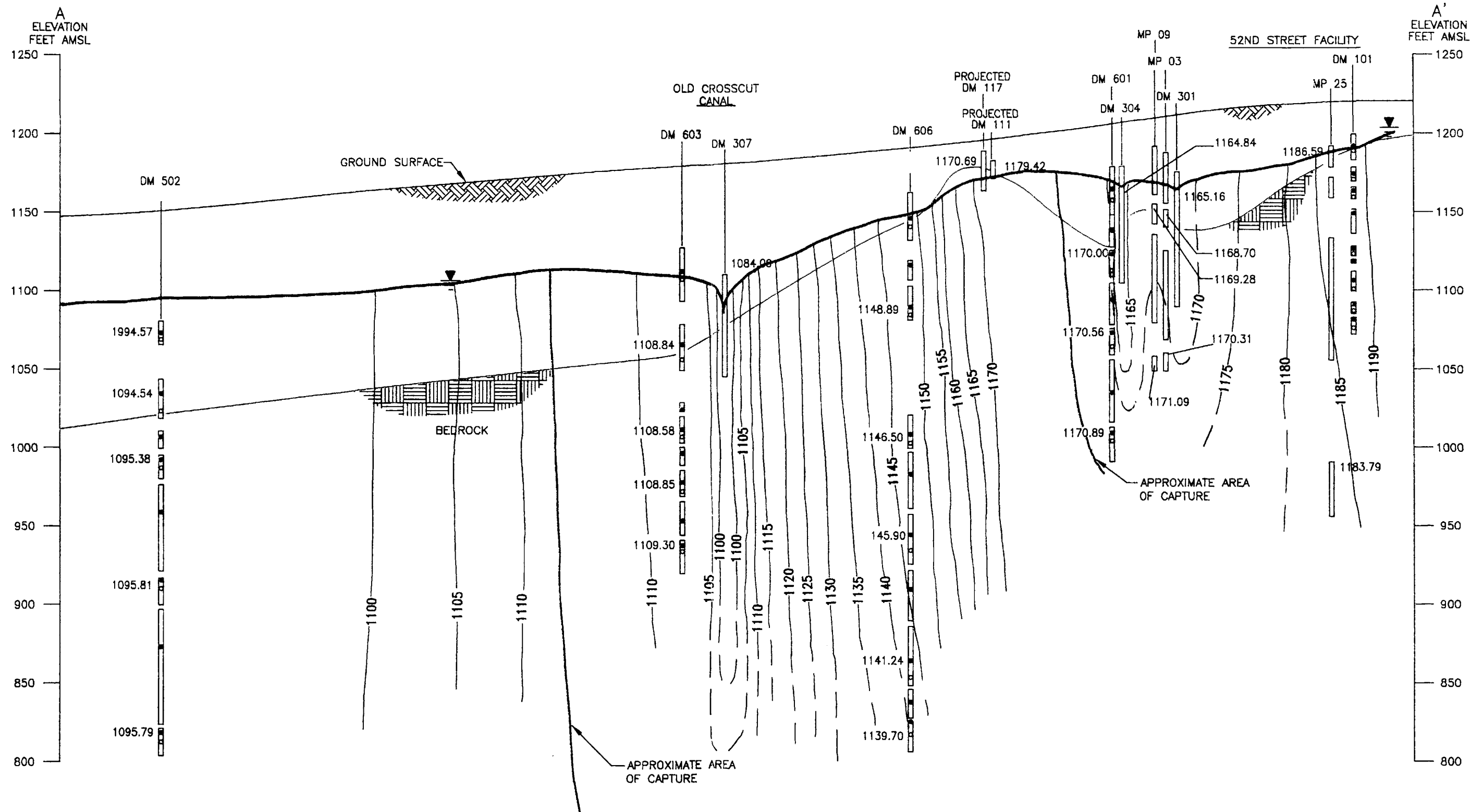


# **WATER LEVEL ELEVATION CHANGES SECTION B-B'** Figure 2.3

**CLEAR  
CREEK  
ASSOCIATES**

OU1 EFFECTIVENESS REPORT  
2000 OPERATIONS  
MARCH 2001





#### LEGEND:

DM 606 — NAME OF WELL  
 — GROUND SURFACE  
 — BEDROCK CONTACT  
 — MONITOR ZONE  
 — MEASUREMENT PORT  
 — PUMPING PORT  
 1148.89 WATER LEVEL ELEVATION (IN FEET AMSL)

— APPROXIMATE AREA OF CAPTURE  
 —1000— WATER LEVEL ELEVATION CONTOUR (IN FEET AMSL)  
 — WATER TABLE

#### NOTES:

1. LOCATION OF SECTION A-A' IS SHOWN ON FIGURE 1.1.
2. THE WATER TABLE WAS PLOTTED USING FALL 2000 DATA.
3. FIGURE 2.2 SHOWS WHERE THE CROSS SECTION CROSSES THE CAPTURE ZONE NEAR THE OCC. GROUNDWATER FLOW IS SOUTHEAST TOWARD THE EXTRACTION WELLS. IN FIGURE 2.7 THIS MEANS THAT WATER ON THE EAST SIDE OF THE CAPTURE ZONE WOULD BE COMING OUT OF THE PAPER AND TO THE READER'S RIGHT, TOWARD THE EXTRACTION WELLS. THEREFORE, THE STAGNATION POINT DOES NOT APPEAR AS THE HIGH POINT IN THE WATER ELEVATION PROFILE.

HORIZONTAL SCALE  
 0 600 1200  
 IN FEET

VERTICAL EXAGGERATION  
 10X

#### FALL 2000 WATER LEVEL ELEVATIONS SECTION A-A'

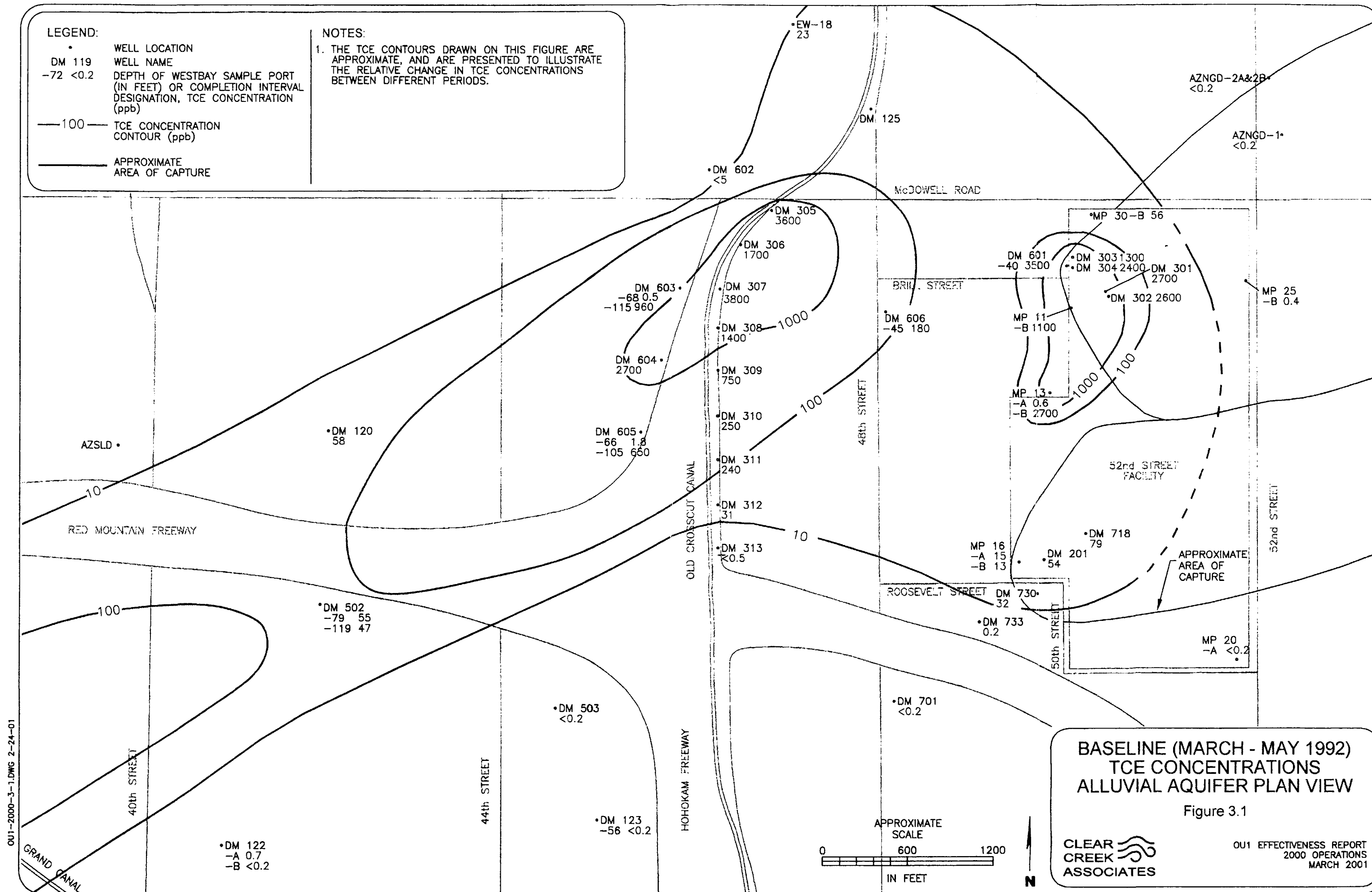
Figure 2.7

CLEAR CREEK ASSOCIATES

OU1 EFFECTIVENESS REPORT  
 2000 OPERATIONS  
 MARCH 2001

• WELL LOCATION  
DM 119 WELL NAME  
-72 <0.2 DEPTH OF WESTBAY SAMPLE PORT  
(IN FEET) OR COMPLETION INTERVAL  
DESIGNATION, TCE CONCENTRATION  
(ppb)  
—100— TCE CONCENTRATION  
CONTOUR (ppb)  
———— APPROXIMATE  
AREA OF CAPTURE

1. THE TCE CONTOURS DRAWN ON THIS FIGURE ARE APPROXIMATE, AND ARE PRESENTED TO ILLUSTRATE THE RELATIVE CHANGE IN TCE CONCENTRATIONS BETWEEN DIFFERENT PERIODS.



BASELINE (MARCH - MAY 1992)  
TCE CONCENTRATIONS  
ALLUVIAL AQUIFER PLAN VIEW

Figure 3.1

CLEAR CREEK ASSOCIATES

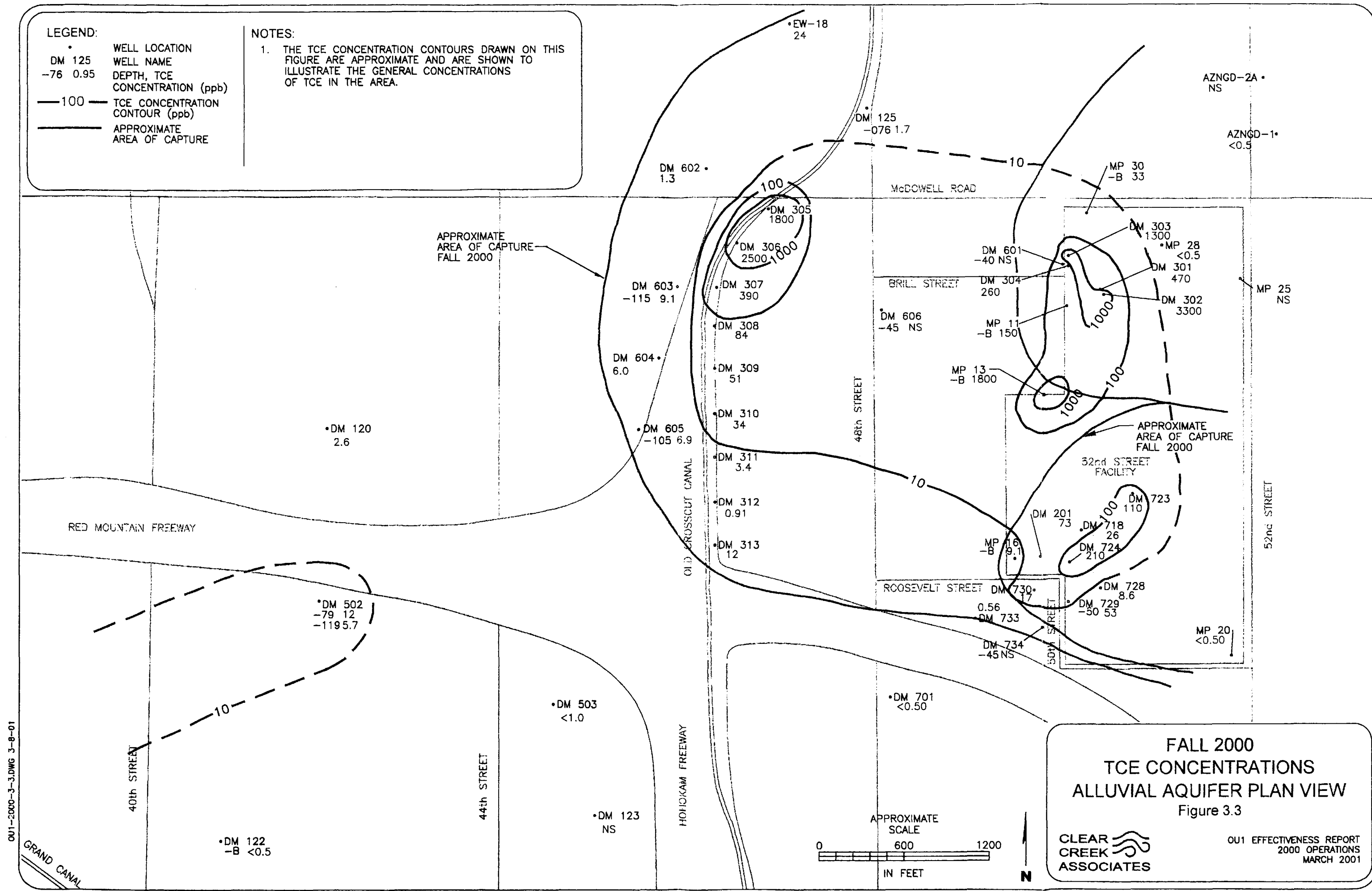
OU1 EFFECTIVENESS REPORT  
2000 OPERATIONS  
MARCH 2001

LEGEND:

- WELL LOCATION
- DM 125 WELL NAME
- 76 0.95 DEPTH, TCE CONCENTRATION (ppb)
- 100— TCE CONCENTRATION CONTOUR (ppb)
- APPROXIMATE AREA OF CAPTURE

NOTES:

1. THE TCE CONCENTRATION CONTOURS DRAWN ON THIS FIGURE ARE APPROXIMATE AND ARE SHOWN TO ILLUSTRATE THE GENERAL CONCENTRATIONS OF TCE IN THE AREA.



FALL 2000  
TCE CONCENTRATIONS  
ALLUVIAL AQUIFER PLAN VIEW  
Figure 3.3

CLEAR  
CREEK  
ASSOCIATES

OU1 EFFECTIVENESS REPORT  
2000 OPERATIONS  
MARCH 2001

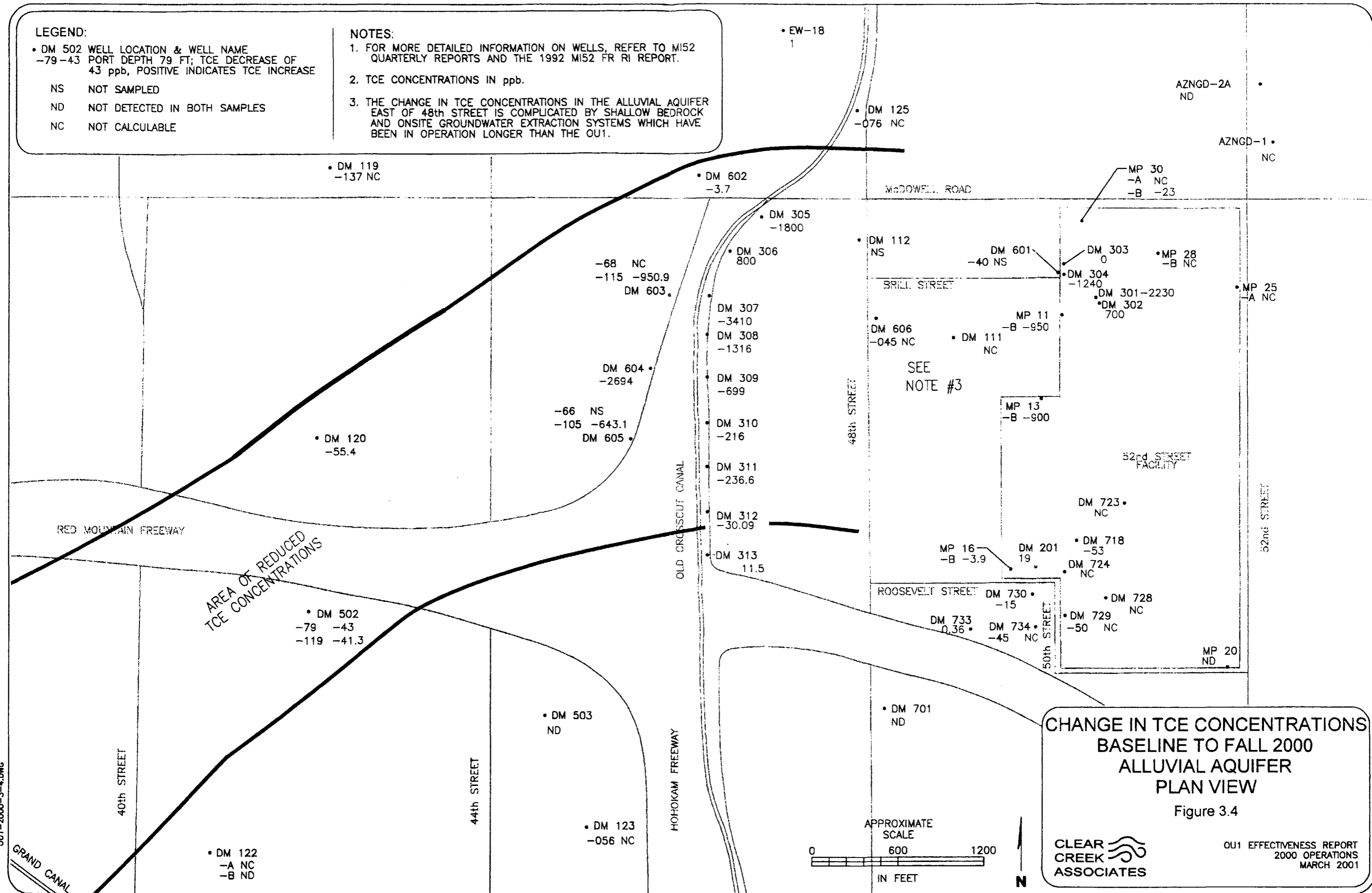
# LEGEND:

• DM 502 WELL LOCATION & WELL NAME  
-79 -43  
43 ppb, POSITIVE INDICATES TCE INCREASE

NS NOT SAMPLED  
ND NOT DETECTED IN BOTH SAMPLES  
NC NOT CALCULABLE

## NOTES:

1. FOR MORE DETAILED INFORMATION ON WELLS, REFER TO M152 QUARTERLY REPORTS AND THE 1992 M152 FR RI REPORT.
2. TCE CONCENTRATIONS IN ppb.
3. THE CHANGE IN TCE CONCENTRATIONS IN THE ALLUVIAL AQUIFER EAST OF 48th STREET IS COMPLICATED BY SHALLOW BEDROCK AND ONSITE GROUNDWATER EXTRACTION SYSTEMS WHICH HAVE BEEN IN OPERATION LONGER THAN THE OU1.



## CHANGE IN TCE CONCENTRATIONS BASELINE TO FALL 2000 ALLUVIAL AQUIFER PLAN VIEW

Figure 3.4

CLEAR  
CREEK  
ASSOCIATES

OU1 EFFECTIVENESS REPORT  
2000 OPERATIONS  
MARCH 2001

**D**



**MOTOROLA**

June 18, 2001

Ms. Kristina Kommalan  
Remedial Project Manager  
Arizona Department of Environmental Quality  
3033 North Central Avenue  
Phoenix, AZ 85012

Re: Concentrations in OU1 Extraction Wells  
52<sup>nd</sup> Street Superfund Site

Dear Ms. Kommalan:

This letter follows up our discussion in April regarding a change in concentrations observed in several of the OU1 extraction wells between 1999 and 2000. As detailed in the attached letter from Clear Creek Associates, we believe that the recent increases are due to declining water levels and an increase in the percentage of groundwater being extracted from the bedrock.

If you have any further questions about this matter, please feel free to contact me.

Sincerely,

Thomas R. Suriano  
Manager, Remediation  
Motorola SPS

cc: John Kivett - ADEQ  
John Kim - Harding ESE  
Nadia Hollan - EPA



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Phoenix, Arizona 85016  
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602-294-9700 fax  
[www.clearcreekassociates.com](http://www.clearcreekassociates.com)

June 18, 2001

Motorola Inc.  
MD56-128  
3102 N. 56<sup>th</sup> Street  
Phoenix, Arizona 85018

Attn: Mr. Thomas R. Suriano  
Manager, Remediation and Due Diligence

RE: Concentrations in OU1 Extraction Well  
52nd Street Superfund Site

Dear Tom:

At your request, we have evaluated the recent changes in several of the OU1 extraction wells. These changes were reported in the OU1 Effectiveness Report for 2000 Operations. That report detailed the effectiveness of the pump-and-treat system that is part of OU1 for the 52nd Street Superfund Site and shows that the system captures the width and depth of the observed plume.

As historic data presented in the OU1 Effectiveness Reports show, TCE concentrations in the OU1 have significantly declined since the extraction wells have been in operation. Figure 3.6b of the OU1 Effectiveness Report for 2000 Operations shows TCE concentrations versus time for wells completed in the alluvium within the OU1 capture zone. This figure shows that most of the wells continue to show consistent declines in concentration (e.g., DM 604 and DM606-045, DM602, DM605-105, DM603-115, DM308, DM309, DM310, DM311 and DM312 have declined to low or non-detectable TCE concentrations). However, four wells -- DM305, DM306, DM307 and DM313 -- have increased recently. As discussed in detail below, our review of the data (concentrations, water levels and pumping rates) indicates that the recent increases are the result of lowered water levels in the wells. This means that an increased percentage of groundwater is being pumped by these wells from the bedrock which contains groundwater with higher TCE concentrations. In other words, the natural dilution that was occurring when water levels were higher and more water was being pumped from the alluvium is either decreasing or no longer occurring.

Attachment 1 is a graph of TCE concentration versus time and pumping rate versus time for extraction wells DM305, DM306 and DM307. This graph shows that the concentrations in these wells increased from 1999 to 2000. The concentrations in DM305 and DM307 have increased only over the last year or two while the concentration in DM306 started increasing in 1997 as the pumping rate in this well was reduced to less than 20 gpm. Attachment 2 shows the TCE concentration versus time and water level versus time for extraction well DM306. Water levels measured in the extraction wells are highly variable depending on whether the well is pumping, was just turned off, or was just turned on. To smooth out the variability, two trend lines were added to the graph, one using a polynomial equation (solid black line) and a second based on a 10 point moving average (dashed black line). Both trend lines drop below the bedrock elevation in the well at approximately the time when concentrations started increasing in DM306.

A TCE concentration of 12 ug/L was observed in DM313 in December 2000. This is the first time since the well was first sampled in 1991 that concentrations have been observed above 1.5 ug/L. As proposed in the Semi-Annual Progress Report 2000-2 in January 2001 the well was re-sampled on February 7, 2001. The February sample results (9.5 ug/L and 27 ug/L) confirmed the December result.

Elevated concentrations in the bedrock are observed in the core of the plume which is observed in DM305 and DM306 and crosses the Old Crosscut Canal just south of McDowell Road. The very low porosity in the bedrock means that a relatively small amount of mass can cause a relatively high concentration -- at some locations higher than the concentrations observed in the overlying alluvium. An increase in the percentage of groundwater being drawn from the bedrock would thus result in increased contaminant concentrations. We believe this is the reason for the increase in DM305 and DM306 and, at much lower concentrations in DM313 (the alluvium at DM313 is now de-saturated and all the water extracted during sampling is coming from the bedrock).

The OU1 extraction wells are completed in both alluvium and bedrock with approximately 25 to 50 feet of screen in alluvium and 10 to 20 feet of screen in the bedrock. Due to declining water levels in the OU1 area, the pumps were lowered in 1995 to approximately five feet above the bottom of the well. Water levels have continued to decline since then; at wells DM305 and DM306 pumping water levels in the well are below the alluvium/bedrock surface. Hydraulic head (calculated to compensate for well efficiency) shows that the water levels outside the casing are above the bedrock. The groundwater elevation at DM313, which is not pumped except for sampling, has declined to a level



below the bedrock surface. The decline in water levels has necessitated a reduction in pumping rates to prevent the wells from pumping dry, which in turn has resulted in an increased percentage of flow into these wells from the higher concentration groundwater in the bedrock (see example of DM306 in Attachment 3). Flow from the bedrock has always been a component of the pumping from the OU1 wells. Until the water level decline and the reduction in pumping, the much greater volume of water pumped from the alluvium diluted the lower volume, but relatively higher concentration water coming out of the bedrock.

The OU1 extraction system has been shown to adequately capture the VOC plume and we believe it will continue to do so. Increasing TCE concentrations observed in DM306 are the result of dewatering the alluvium and corresponding lower pumping rates causing a greater percentage of groundwater extracted from the bedrock. The same process is observed at DM305 and DM307, but to a lesser degree. The increase in concentration in DM313 is also a result of dewatering the alluvium, but the concentrations in bedrock at DM313 are much lower and, thus, the overall increase is less.

We will continue to evaluate the trends at these wells as additional data is gathered. If you have any further questions about the wells, feel free to contact us.

Sincerely,

Clear Creek Associates

A handwritten signature in black ink, appearing to read "Sharen R. Meade".

Sharen R. Meade  
Project Manager

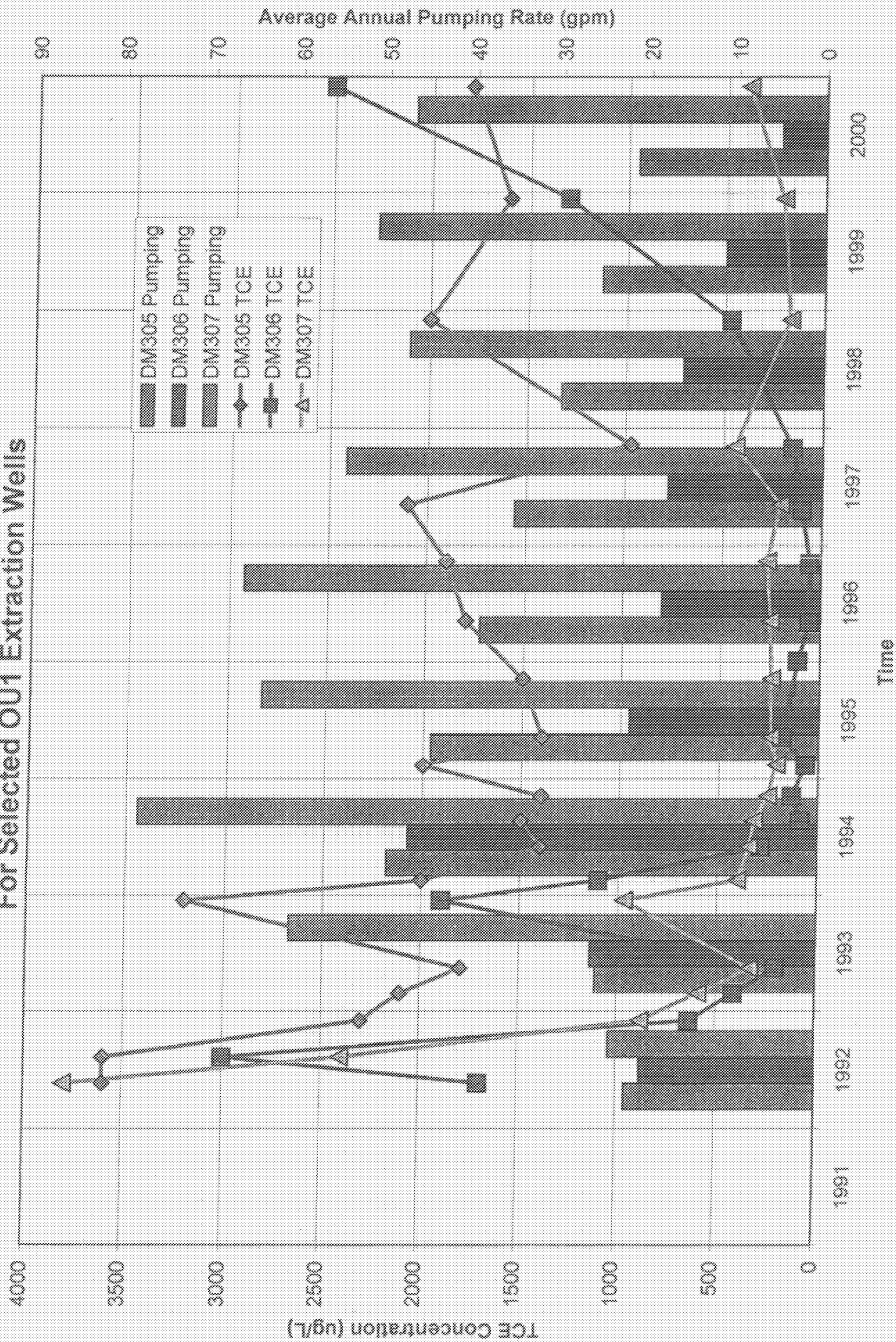
A handwritten signature in black ink, appearing to read "R. Douglas Bartlett".

R. Douglas Bartlett, R.G.  
Principal

A handwritten signature in black ink, appearing to read "Leighton T. Cruse".

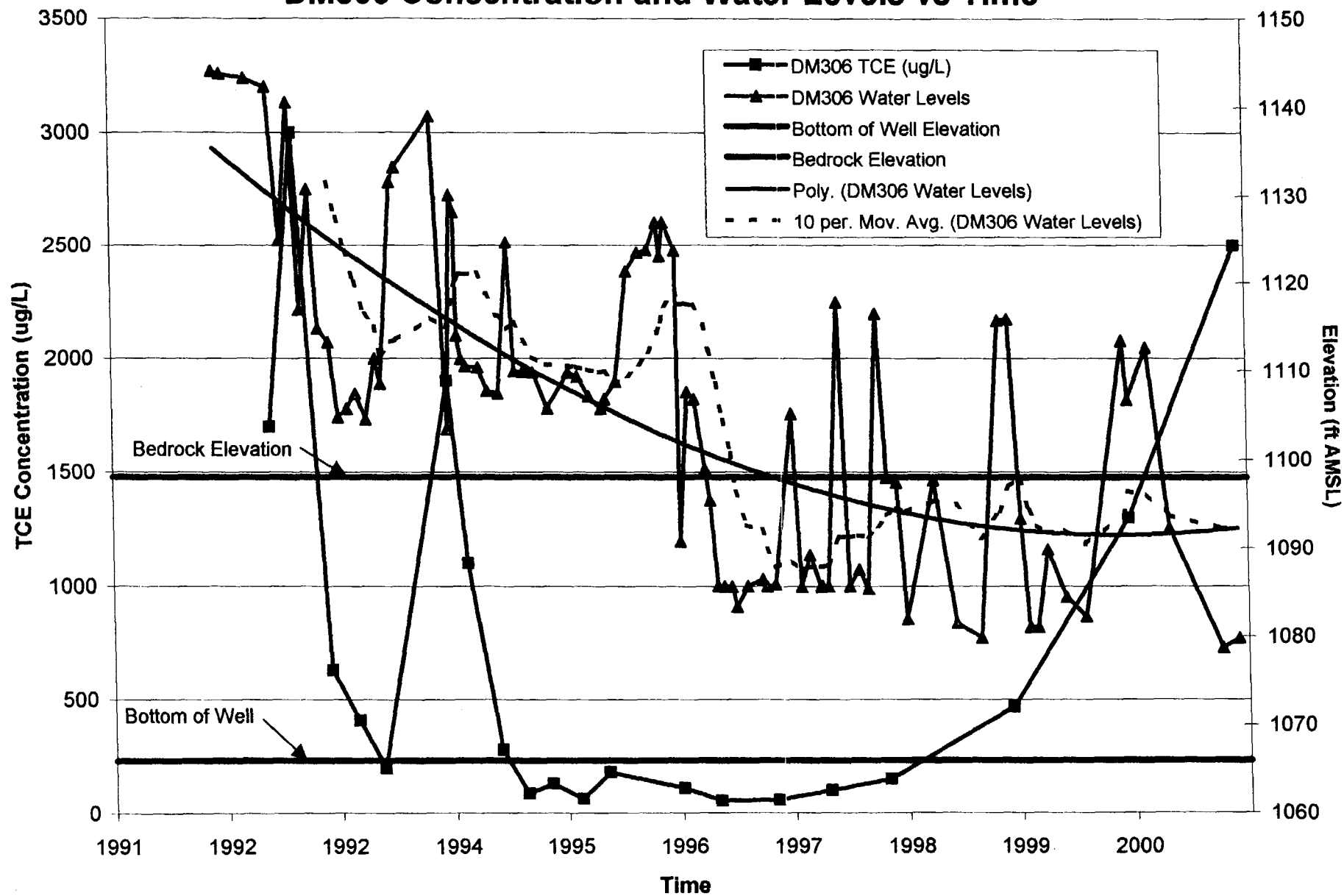
Leighton T. Cruse, R.G.  
Senior Hydrogeologist

Attachment 1  
TCE Concentrations and Pumping Rates vs Time  
For Selected OU1 Extraction Wells



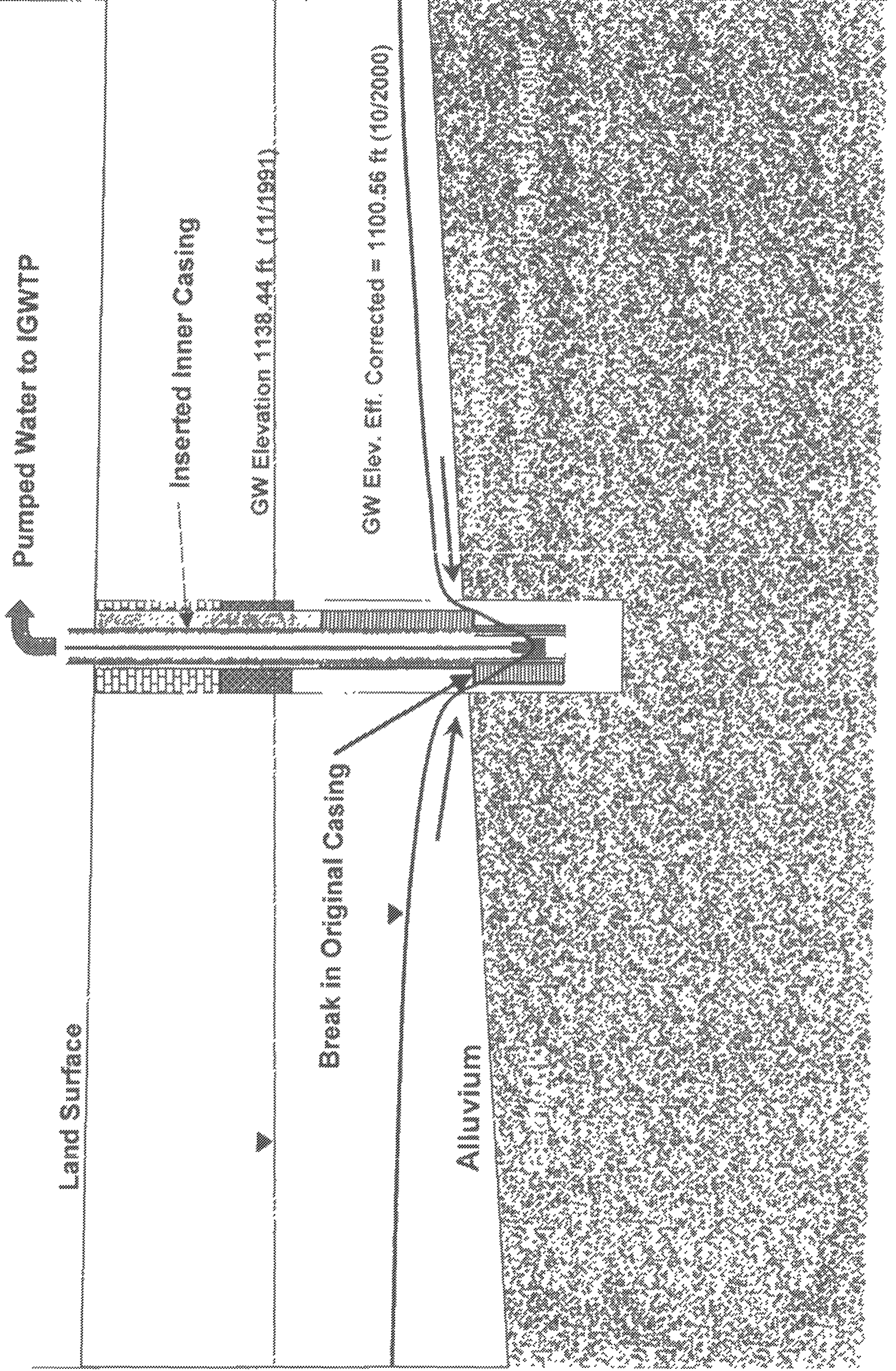
## Attachment 2

### DM306 Concentration and Water Levels vs Time



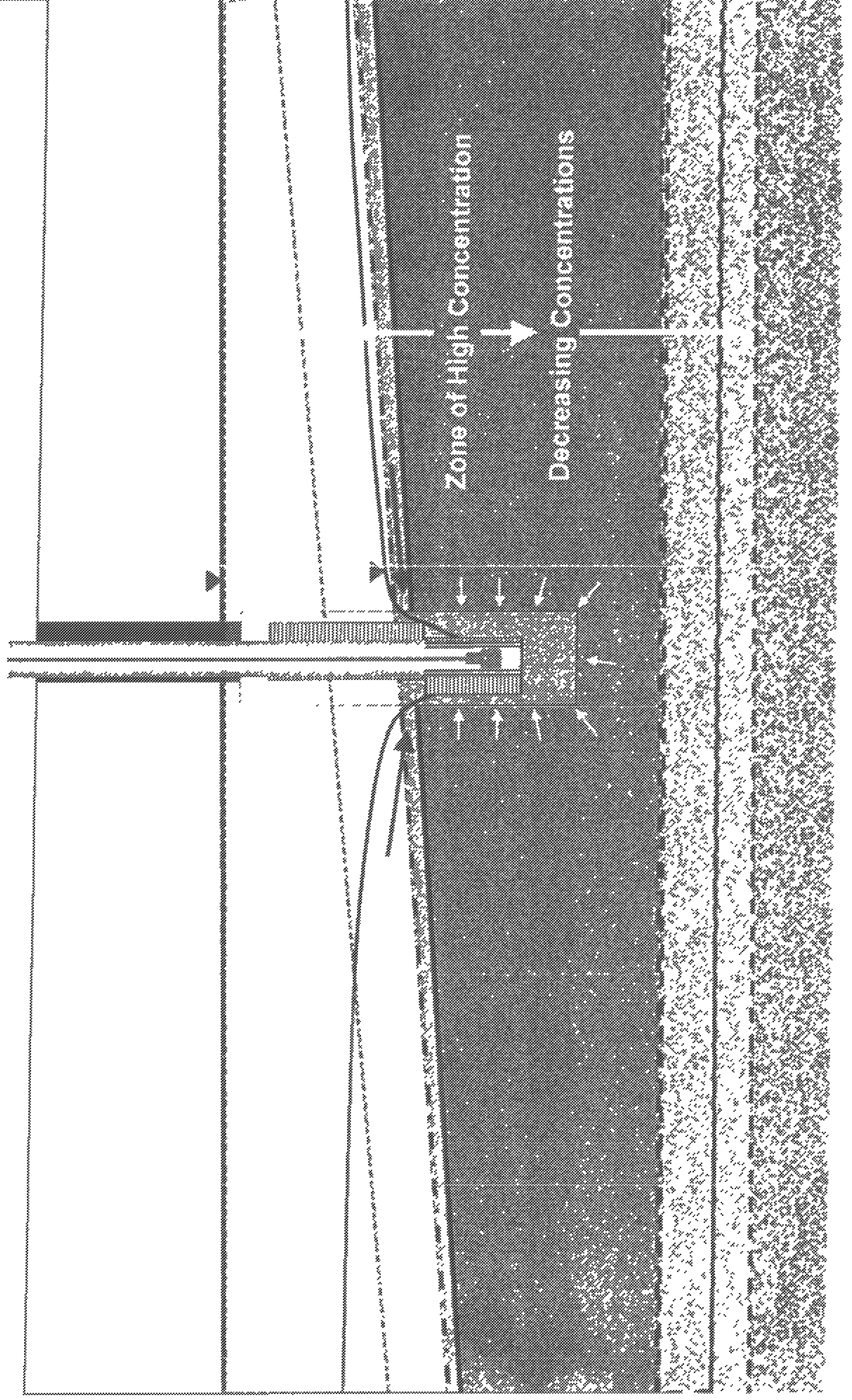
# Attachment 3

## DM306 Well Schematic



# Attachment 3 (Continued)

## DM306 Well Schematic





**APPENDIX E**

**INTERPRETATION AND USE OF HYDRAULIC  
HEAD DATA FOR DEFINITION OF THE CAPTURE ZONE**

**This Appendix has been reproduced from the 1994  
OU Effectiveness Report (Dames & Moore, 1995b)**

## APPENDIX E

### INTERPRETATION AND USE OF HYDRAULIC HEAD DATA FOR DEFINITION OF THE CAPTURE ZONE

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## **APPENDIX E**

### **INTERPRETATION AND USE OF HYDRAULIC HEAD DATA FOR DEFINITION OF THE CAPTURE ZONE**

#### **E.1 INTRODUCTION**

The use of hydraulic head data is critical to interpretation of the capture zone and, therefore, the effectiveness of the OU system in general. This Appendix provides a general discussion of how hydraulic head data from ground-water monitor wells have been used to define hydraulic capture. Definitions of commonly used terms are presented in Section 2.0. Section 3.0 provides a discussion of the Alluvial Aquifer System. The Fractured Bedrock System is discussed in Section 4.0. Model simulation of the vertical influence of OU pumping is discussed in Section 5.0. The use of hydraulic head changes to indicate capture of VOCs in ground water is presented in Section 6.0.

#### **E.2 DEFINITIONS**

The following terms are used in the OU Effectiveness Report as defined below:

##### **Alluvial Aquifer**

The saturated portion of unconsolidated sand and gravel which overlies bedrock throughout most of the area west of the Motorola 52nd St. facility.

##### **Alluvium-Bedrock Interface**

The contact zone between the unconsolidated sand and gravel deposits known as the "alluvium" and the underlying bedrock. This zone is important because multi-port monitor well data have shown that the highest concentrations of VOCs tend to occur at the base of the alluvium near the alluvium-bedrock interface.

##### **Apparent Drawdown**

The decrease in water level in a well after startup of an extraction, or pumping well. The observed drawdown at any well may include a component of drawdown due to regional declines in water levels unrelated to operation of the OU system, as well as OU-induced

drawdown. Drawdown observed in wells is referred to as "apparent" because the component of regional drawdown is unknown.

### **Capture Zone**

A curved surface defining the region within which ground water is captured by pumping wells. Outside of the "capture zone", or downgradient of the stagnation point, ground water flows away from the pumping wells. A stagnation point is that point where a particle of water has equal but opposite hydraulic forces acting on it, thus preventing movement. Water located between the stagnation point and the pumping well flows toward the well.

### **Containment**

VOC contamination in ground water is completely captured by extraction wells, therefore, the VOC plume is "contained" within the capture zone induced by the OU system.

### **Conventional, Single-Completion Well**

A well constructed with one screened interval. The screened interval may or may not extend above the ground-water table. In some cases, the screened interval isolates a particular section of the aquifer.

### **Fractured Bedrock**

Consolidated rock units periodically broken by faults or small cracks (joints). In the Motorola 52nd St. area, bedrock includes Precambrian-age metamorphic granite and metarhyolite rock units and Tertiary-age sedimentary and volcanic rock units. The older rock units of Precambrian age are generally highly fractured. The degree of fracturing in tertiary rocks varies.

### **Horizontal Gradient**

The change in ground-water elevation with horizontal distance. This is usually inferred from differences in water elevations between two wells. The difference in hydraulic head between the wells divided by the horizontal distance between the wells is the horizontal gradient.

## **Hydraulic Head**

The height of water at a point in an aquifer. This is one way to report the pressure at a point in an aquifer. This can be reported as "elevation head" when the height of water above a point is added to the elevation of that point.

## **Hydraulic Packer**

A device used to separate monitor zones in a multi-port well. Westbay wells employ water-inflatable hydraulic packers that expand and seal the borehole or casing, preventing the movement of water vertically between monitor zones.

## **TARGET 3DS**

A ground-water computer code developed by Dames & Moore to simulate ground-water flow and contaminant transport in saturated aquifers in three dimensions. The acronym stands for "Transient Analyzer of Reactive Groundwater Effluent and Transport". The TARGET computer code has been extensively tested and reviewed and has been used on more than 200 projects worldwide.

## **Vertical Gradient**

The change in ground-water elevation with vertical distance. This difference is usually measured using multi-port wells, such as Westbay Wells, with ports at different elevations within the aquifer. The difference in hydraulic head at individual ports in the monitor wells results in the "vertical gradient".

## **Westbay Multi-Port Well**

A type of well which includes several individual monitor zones with depth. The components of the well, including the casing and hydraulic packers, are manufactured by Westbay Instruments, Inc. of Canada.

## **E.3 ALLUVIAL AQUIFER SYSTEM**

This section addresses containment, or capture, of contaminated ground water in the saturated alluvium. Dames & Moore believes that the operation of the OU system creates

a capture zone that extends approximately 1,000 feet west of the Old Crosscut Canal (OCC) and is of sufficient width to contain ground-water contamination present in the alluvial aquifer.

The OU system includes 13 extraction wells installed through alluvium into bedrock. Nine wells (eight of which were active in 1994) are located offsite along the Old Crosscut Canal, and four wells are located onsite at the Motorola 52nd St. facility. Ground water is extracted from the alluvium causing the local water table to decline resulting in ground-water flow toward the extraction wells. Pumping rates for the OU system vary from 500 to 650 gpm. Of this, about 45 gpm are pumped from the four onsite wells.

Prior to operation of the OU system, ground water in the vicinity of the OCC migrated toward the southwest as illustrated by ground-water elevation contours for the OU baseline period March through May 1992 (Figure E.1). These contours were drawn using data from wells screened in the alluvium or across the alluvium-bedrock interface, and represent the flow pattern in the alluvium. Pre-operation contours define baseline conditions with which system operation is compared.

The operation of the OU system clearly has a significant influence on water levels in the alluvium. Figure E.2 is a water level contour map drawn using data collected in Fall 1994 during OU operations. Figure E.2 illustrates the influence of the OU system on ground-water flow patterns after one year of continuous operation. The contours, when compared to Figure E.1, show that the water table has been lowered (drawdown) by more than 30 feet in the area of the extraction wells (Figure E.3). The depression in the ground-water table created by the OU system results in capture of ground water within the area labeled as the "Area of Capture" on Figure E.2. Within this zone, ground water migrates toward the extraction wells and is eventually withdrawn and treated at the Motorola 52nd St. facility.

Regional effects can cause changes in ground-water levels in this area. Experience indicates that seasonal water level changes due to regional effects are generally less than 5 feet in the OU area. Therefore, an observed drawdown of 5 feet or greater near the OU system is judged to be a clear indication of the influence of the extraction system. The area of drawdown exceeding five feet has a width of 2,500 feet and a length of 4,400 feet. Drawdown near the extraction system after one year of continuous pumping exceeds 20 feet over a large area (Figure E.3).

The influence of continuous pumping on the alluvial aquifer is significant and is seen in two clear ways: (1) a hydraulic capture zone is established; and (2) large drawdown, or

lowered water levels, occur within the alluvium. Figure E.2 illustrates water level elevation contour lines drawn using measurements made in Fall 1994, after one year of continuous operation. The contour lines can be used to interpret the direction of ground-water flow at any point. Within the capture zone, ground water flows toward, and is eventually captured by, the extraction wells of the OU system. Based on the measurements of water levels shown on Figure E.2, the capture zone extends about 1,000 feet west of the OCC. This capture zone can then be shown relative to the observed TCE concentration contours. The influence of the OU system in the underlying bedrock is addressed in the next section.

#### **E.4 FRACTURED BEDROCK SYSTEM**

This section addresses hydraulic containment in bedrock which defines the depth of the capture zone in bedrock. Three factors are important in defining the depth of capture:

- 1) Water level changes in alluvium effect bedrock. The pressure changes associated with a significant drawdown in the alluvium are transmitted to great depth in the bedrock,
- 2) Water level changes observed in monitor wells at depth indicate the area and depth of influence of the OU in bedrock, and
- 3) A conceptual model, developed to simulate the response of the bedrock aquifer, can be used to show the effect of pumping at depth on producing a deep capture zone.

Operation of the OU system has an influence in the bedrock as illustrated by Figure E.4, a cross section oriented northeast-southwest through the OCC area.

Water level elevations in bedrock are measured using Westbay multi-port wells. These wells allow measurement of hydraulic pressure in bedrock at various depths. Each well includes several measurement intervals in bedrock extending to a depth of as much as 390 feet (DM 606). The hydraulic pressure measured in each measurement interval is converted to water level elevations allowing comparison of the hydraulic pressures in bedrock to water levels measured in conventional, single completion wells screened in the alluvium. Hydraulic head data can then be used in defining the capture zone in bedrock.

Contours of water level elevation shown on Figure E.4 were drawn using data from conventional and multi-port monitor wells. The contours have been used to interpret the direction of ground-water flow and the resulting vertical extent of capture by the OU system.

The total depth of capture illustrated on Figure E.4 is uncertain; however, an analytical evaluation of the depth of capture (discussed below) indicates capture occurs to depths well in excess of existing monitor wells.

Figure E.5 illustrates the amount of drawdown measured in the bedrock between the Baseline period and Fall 1994 after more than two years of OU operation. Near the extraction system (DM 307 on Figure E.3), drawdown exceeded 40 feet. In monitor well DM 603, drawdown exceeded 17 feet in all bedrock ports indicating the extraction system was having a significant influence on bedrock to at least 265 feet, the total depth of the well. During the same period, the drawdown increased in DM 606 from about 3 feet in the upper bedrock port, at a depth of 102 feet, to about 7 feet at a depth of about 370 feet. This indicates a significant effect at depth in bedrock for the full depth of the monitor well.

The changes in water level elevation with depth at wells DM 603 and DM 606 are illustrated in Figures E.6 and E.7, respectively. Several sampling events are represented on each graph of water level elevation (pressure) versus depth. For each sampling event, a line connects individual water level measurements between different depths. The slope of the line can be used to estimate the vertical component of the gradient observed at the well. Water level elevations measured in bedrock ports of DM 606 decrease with depth indicating a downward vertical component of the hydraulic gradient. In DM 603, water level elevations for each sampling event are roughly equal indicating there is no significant vertical variation in the gradient. Therefore, ground water only flows horizontally at DM 603.

The graphs also illustrate the magnitude of drawdown between pre-pumping (May 1992) and pumping (March 1993 or Fall 1994) conditions and the change in vertical gradient between these events. Vertical gradients do not significantly change in wells DM 603 or DM 606 as a result of OU operation, and there is still capture in the bedrock.

#### **E.4.1 VERTICAL GRADIENTS**

The effect of pumping on existing gradients in monitor wells is examined in this section. Typically, the magnitude of drawdown at all ports in each well is about the same for a given sampling event. This not only demonstrates the influence of pumping at that location, but indicates no change in the vertical component of the gradient at that well. This is not inconsistent with the conclusion that such wells lie within the zone of capture.

The direction that a particle of water will move in a two-dimensional cross section is dependent on the vector sum of the vertical and horizontal components of flow. A multi-port Westbay well provides a means for measurement of the change in head (drawdown) in the vertical dimension. This allows us to calculate the vertical component of the rate of groundwater flow (velocity) at that well. The horizontal vector is measured by comparing the hydraulic heads in wells separated by some distance.

Figures E.6 and E.7 illustrate the change in water level elevations with depth in wells DM 603 and DM 606, respectively. As noted in the general discussion, the large changes in drawdown at these wells show the significant effects of pumping on all parts in the bedrock.

Vertical gradients (the vertical components of flow) are negligible in DM 603 and strongly downward in DM 606. The downward gradient in DM 606 (Figure E.7) is evident from the negative slope of the lines connecting measurements made on specific dates. The average slope of the line in May 1992, prior to pumping, equates to a vertical hydraulic gradient of 0.017 ft/ft. In December 1992, after six months of pumping, for example, the gradient increased to about 0.027 ft/ft.

Horizontal gradients can be estimated by comparing the water levels measured in well DM 606 to well DM 307. Before pumping in May 1992, the horizontal gradient was 0.017 ft/ft, equal to the magnitude of the downward gradient. However, in December 1992 the horizontal gradient increased to 0.056 ft/ft, twice the vertical gradient. As an example, Figure E.8 illustrates the addition of the vertical and horizontal vectors corresponding to these gradients. The sum causes the vector to flatten slightly as a result of pumping. The overall direction of water movement at DM 606 remains downward, however.

At DM 603, the velocity vector before pumping is toward the west at a magnitude of about 0.085 ft/day. After pumping begins, the velocity vector changes direction toward the east and increases in magnitude to 1.14 ft/day, a thirteen-fold increase. The vertical component of flow remains near zero (Figure E.8).

One might assume that if vertical gradients do not change to upward near the extraction system, the system is not capturing in bedrock as depicted. This cannot be the case when the horizontal component of flow is considered. Drawdown at well DM 603 exceeded 16 feet between Spring 1992 and Spring 1993, a period of about one year (Figure E.6). Between May 1993 and December 1993, water levels in well DM 603 rebounded by more than 10 feet due to the shut off of the OU system (Figure E.6). Clearly, water levels in DM 603 respond to

pumping at the OCC. An upward vertical gradient would be observed in bedrock near the extraction wells, but not at DM 603.

Additionally, the water levels observed in pumping wells along the OCC are lower than the water level measured at DM 603. These observations lead to the conclusion that ground water at DM 603 flows east, toward the extraction wells and is therefore well within the OU capture zone. The uniform water level decline observed in DM 603 indicates that the OU system has an influence exceeding the depth of the monitor well by a significant amount.

There are at least two possible explanations why no change in vertical gradient is observed in either DM 603 or DM 606;

- 1) Inflatable packers separating measurement intervals in the Westbay wells do not adequately seal the intervals allowing pressures to be equally distributed between zones. (A multi-port well without adequate seals will show no vertical gradient or pressure differences between ports. All measured pressures in such wells will be equal.)
- 2) Hydraulic properties of the bedrock may allow the deep vertical influence of the OU system, i.e. rapid, almost instantaneous transmission of hydraulic pressure throughout the bedrock. Also, vertical fractures located throughout the area could result in greater vertical bedrock permeability, and enhance the potential for the transmission to depth of hydraulic pressures caused by lowering the water table.

Each of these possibilities is discussed in the following paragraphs.

#### **E.4.2 WESTBAY WELL PACKER INTEGRITY**

Measurements of hydraulic pressures in ground water at the Westbay wells have demonstrated that the packers are intact and performing according to their design. Packer integrity is apparent at both DM 603 (Figure E.6) and DM 606 (Figure E.7) where vertical gradients are evident and different pressures have been observed between adjacent ports. No vertical gradient would be apparent if the packers had failed. Thus, pressure measurements from multi-port wells are believed to represent the actual hydraulic pressure in alluvium and bedrock.

#### **E.4.3 BEDROCK HYDRAULIC PROPERTIES**

The hydraulic properties of bedrock are the basis for a relatively uniform and significant response in all Westbay ports, and are the key to understanding the bedrock response

to OU pumping. The bedrock is relatively impermeable compared to alluvium; bedrock permeability is largely attributable to fractures. Fractures in bedrock are pervasive in the Salt River Valley area due to a long tectonic history of major faulting. Figure E.9, a northeast-southwest geologic cross section, illustrates schematically the fault structures underlying the OU area based on interpretation by Dr. Stephen Reynolds of Arizona State University. As a result of crustal extension in a southwest direction, large northwest-oriented blocks of crust were formed bounded by faults. These blocks tilted like "dominoes" toward the southwest causing the originally vertical faults to dip toward the northeast as depicted in Figure E.9. Other vertical faults cut across blocks in a northeast direction parallel to the plane of the cross section. This large scale faulting and thinning of the crust is responsible for development of a pervasive set of fractures in bedrock with high-angle orientations.

The rapid response to pumping from the alluvium was observed in the bedrock in a large-scale pumping test conducted at well DM 518 located about two miles downgradient of the OU system. The results and analyses of this test were reported in the aquifer report, Dames & Moore, September 1993. Evaluation of the testing results at deep Westbay wells revealed a much higher permeability in bedrock fractures than in the bedrock matrix. Also, uniform and immediate responses to drawdown in the alluvium were measured at all Westbay ports in the bedrock. The immediate pressure response (drawdown) observed in these wells over a great vertical extent supports the conclusion that the changes observed in bedrock at the OU are caused by the effect of pumping.

Permeability of the bedrock in the vertical direction is believed to be higher than in the horizontal direction due to the presence of the high-angle fractures. Because the predominant fracture direction is vertical, the vertical permeability observed in bedrock will be higher than the horizontal permeability. Therefore, the response in bedrock to pumping could be larger in the vertical dimension than it would be if the bedrock had a uniform rock matrix permeability. This hypothesis is examined within the conceptual model.

## **E.5 MODEL SIMULATION OF HYDRAULIC RESPONSE**

In order to understand the hydraulic response in bedrock to drawdown in alluvium, a conceptual model of the system was constructed. This allowed us to examine the possible response in bedrock to changes in vertical permeability, and to examine the resulting direction of flow at various locations in the bedrock.

The three-dimensional TARGET 3DS finite-difference code was used to construct a model in the vicinity of the OU. The model domain included a total of 39,690 cells and covered an area of 30,975 feet by 27,300 feet to a depth exceeding 2,000 feet. The large dimensions were used to avoid any influence of the boundaries on the predictions of OU operation. Figures E.10 and E.11 illustrate the model grid in the horizontal and vertical directions. Two layers are included; a layer to represent alluvium and a layer to represent bedrock. Hydraulic properties of the alluvium and bedrock were adapted from a previous Motorola 52nd St. ground-water model prepared by Dames & Moore in 1987. Pumping wells oriented and spaced according to their actual positions were placed in the model as shown on Figure E.10 and pumped in steady state at average operational pumping rates.

Two simulations were run: one in which the bedrock permeability was assumed to be isotropic and one in which the bedrock was assumed to be anisotropic with the vertical permeability ten times larger than the horizontal permeability. Figures E.12 and E.13 illustrate the results in cross section for each case. The vertical permeability of the bedrock can be seen to play an important role in determining the expected vertical gradient at well DM 603 (shown on Figure E.12). With an isotropic permeability in bedrock, the vertical gradient at DM 603 would be upward. If the bedrock is anisotropic, the vertical gradient would be very nearly zero at well DM 603. This is consistent with the observations at DM 603. Both cases result in a significant response at great depth below the extraction system. The depth to the capture zone beneath the OU location of the extraction wells is at least 900 feet (Figure E.12), as modeled under isotropic conditions. It extends to more than 2,000 feet under anisotropic conditions (Figure E.13).

Although this simplified model cannot take into account the many details of the fracture pattern, fracture density, or orientation, it is useful for understanding what hydraulic properties of bedrock are important to consider in interpretation of water pressure data in bedrock. We believe that the response to pumping is deep in bedrock over a large volume, and this model indicates that higher vertical permeability increases the vertical response.

## **E.6 CAPTURE OF VOCs IN GROUND WATER**

The foregoing discussion demonstrates that the OU system is effective in establishing hydraulic containment in both the alluvium and bedrock. Due to the slow velocity of ground water and VOCs in the aquifer, particularly through bedrock, significant pumping time will be necessary to produce marked decreases in VOC concentrations. The established capture

zone is, however, created almost immediately with the startup of pumping and contains ground-water contamination, resulting in the removal of VOCs from ground water.

The significance of changes in VOC concentrations in bedrock monitor wells is uncertain because of the complexity and low particle velocities within fractures in bedrock. Capture and containment in bedrock is defined using hydraulic criteria. The hydraulic data indicate the OU system is providing containment of contaminated ground water at the OCC.

## **E.7 SUMMARY**

Existing data demonstrate complete hydraulic containment in the alluvium and containment to great depth in the bedrock. Hydraulic containment results in capture of contaminated ground water at the Old Crosscut Canal. The measured hydraulic response to drawdown at deep ports in the Westbay monitor wells document the interaction between water level changes in the alluvium and bedrock.

The TARGET 3D model was used to examine the response of a fractured bedrock system to pumping in the alluvium. The predicted zone of capture in bedrock is between 900 and 2,000 feet below ground surface, much deeper than the depths at which contaminated ground water has been observed.

## **E.8 REFERENCES**

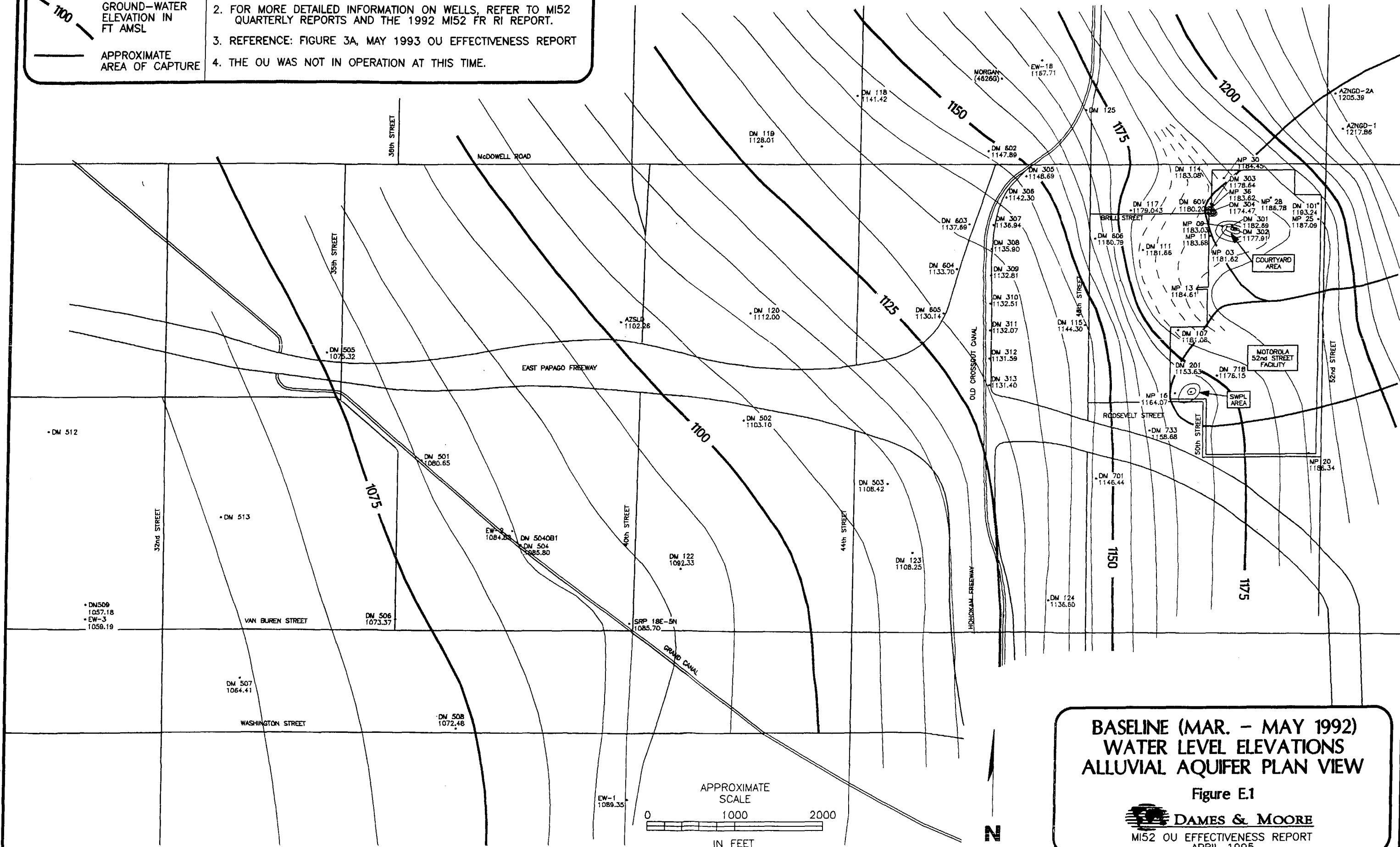
- Arizona Department of Environmental Quality, 1994. Letter from Mr. Jeffrey P. Ceylon , ADEQ, to Mr. Thomas R. Suriano, Motorola Inc., dated November 28, 1994 transmitting comments on the Motorola 52nd Street Operable Unit Effectiveness Report, 1993, dated September 1994.
- Dames & Moore, 1994. Operable Unit Effectiveness Report, 1993, Motorola 52nd St. for Motorola Inc., September 1994.
- Dames & Moore, 1993. Aquifer Test Report, Well DM 518, Motorola 52nd St., October 1993.

**LEGEND:**

- DM 101 NAME OF WELL
- 100 — GROUND-WATER ELEVATION IN FT AMSL
- APPROXIMATE AREA OF CAPTURE

**NOTES:**

1. MOTOROLA MONITOR AND EXTRACTION WELLS, PRIVATE WELLS AND ADEQ MONITOR WELLS ACTIVE IN 1994 ARE SHOWN.
2. FOR MORE DETAILED INFORMATION ON WELLS, REFER TO M152 QUARTERLY REPORTS AND THE 1992 M152 FR RI REPORT.
3. REFERENCE: FIGURE 3A, MAY 1993 OU EFFECTIVENESS REPORT
4. THE OU WAS NOT IN OPERATION AT THIS TIME.



**BASELINE (MAR. - MAY 1992)  
WATER LEVEL ELEVATIONS  
ALLUVIAL AQUIFER PLAN VIEW**

Figure E.1

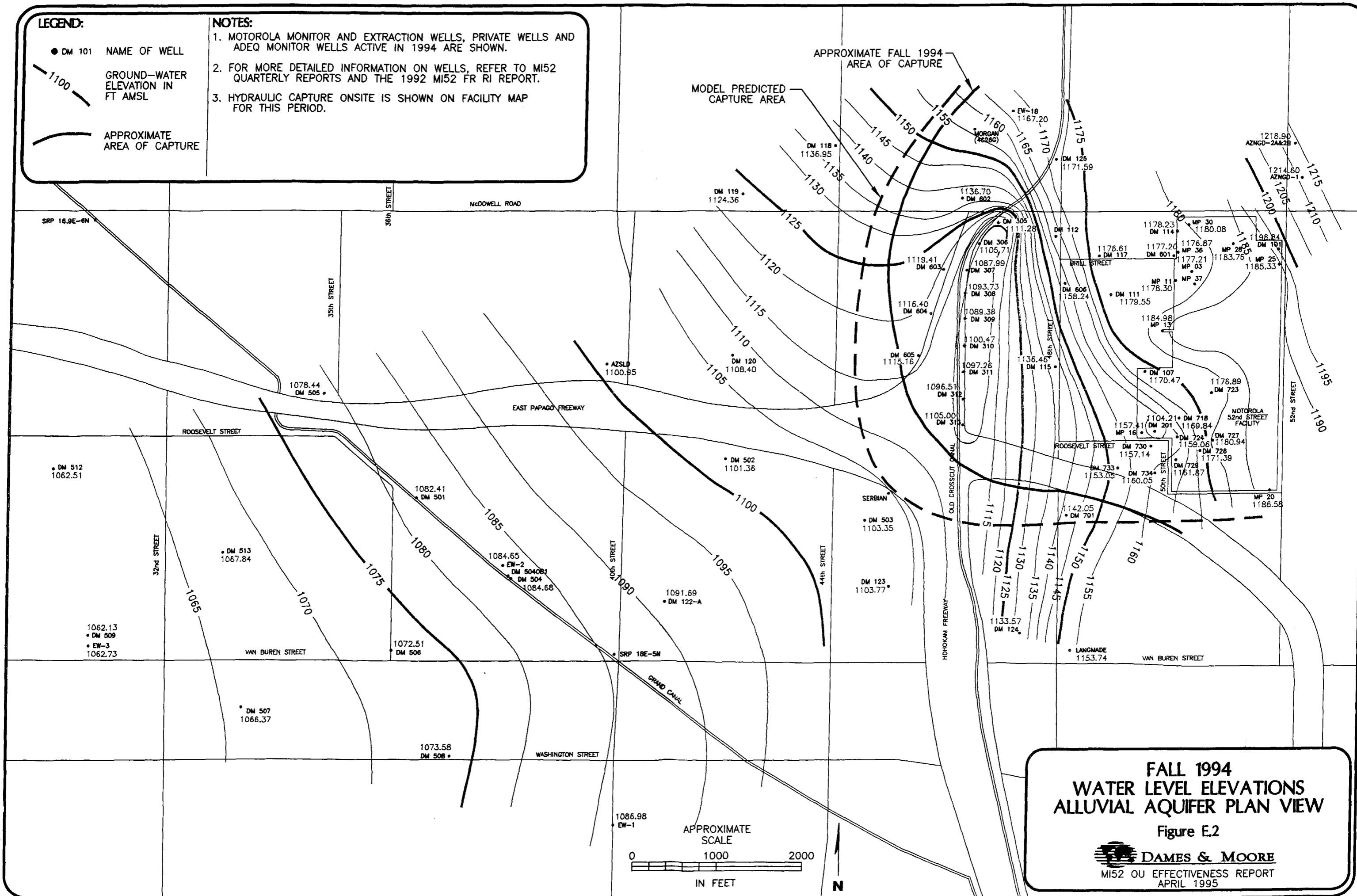
**DAMES & MOORE**  
M152 OU EFFECTIVENESS REPORT  
APRIL 1995

**LEGEND:**

- DM 101 NAME OF WELL
- 1100 --- GROUND-WATER ELEVATION IN FT AMSL
- APPROXIMATE AREA OF CAPTURE

**NOTES:**

1. MOTOROLA MONITOR AND EXTRACTION WELLS, PRIVATE WELLS AND ADEQ MONITOR WELLS ACTIVE IN 1994 ARE SHOWN.
2. FOR MORE DETAILED INFORMATION ON WELLS, REFER TO MI52 QUARTERLY REPORTS AND THE 1992 MI52 FR RI REPORT.
3. HYDRAULIC CAPTURE ONSITE IS SHOWN ON FACILITY MAP FOR THIS PERIOD.



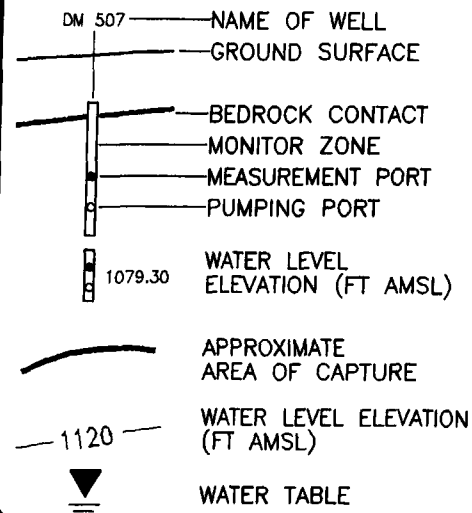
**FALL 1994  
WATER LEVEL ELEVATIONS  
ALLUVIAL AQUIFER PLAN VIEW**

Figure E.2

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MI52 OU EFFECTIVENESS REPORT  
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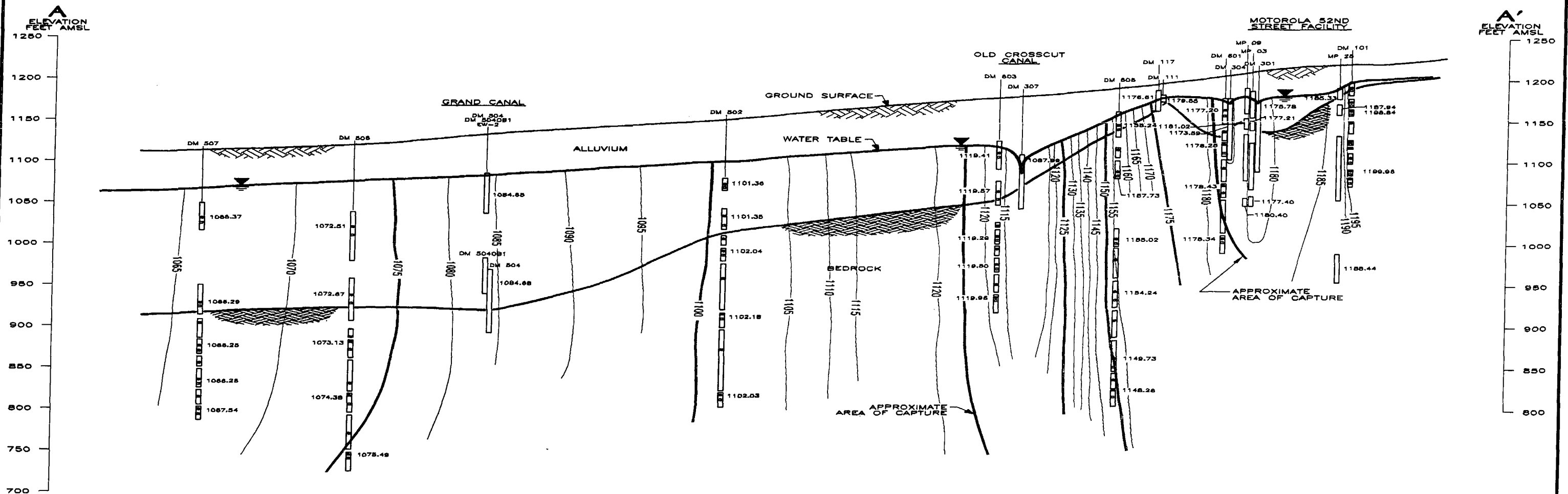


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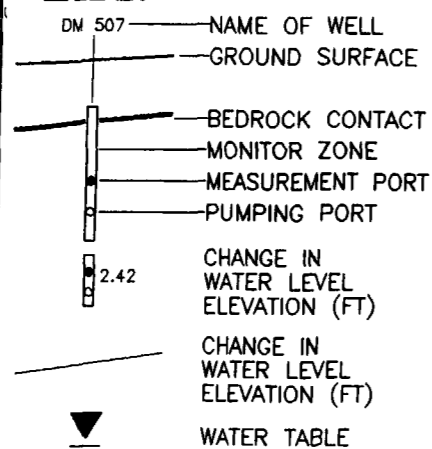


# NOTES:

1. LOCATION OF SECTION AA' IS SHOWN ON FIGURE 1.
2. THE SPECIFIC DEPTHS/LOCATIONS OF MEASUREMENT AND PUMPING PORTS, AND MONITOR ZONES ARE PROVIDED IN THE M152 1992 FR RI REPORT AND OTHER RELATED DOCUMENTS. THE ENTIRE WELL CONSTRUCTION IS NOT SHOWN.
3. THE WATER TABLE WAS PLOTTED USING FALL 1994 DATA.

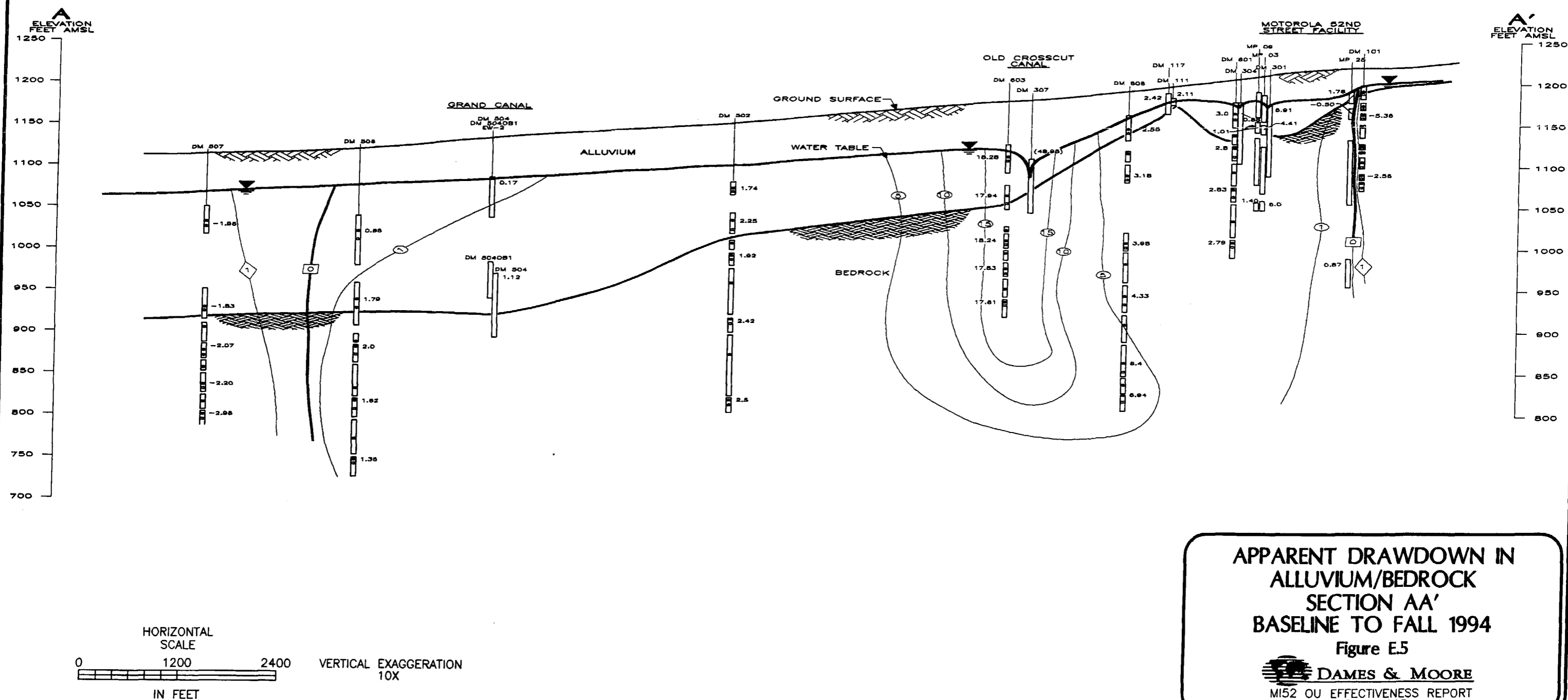


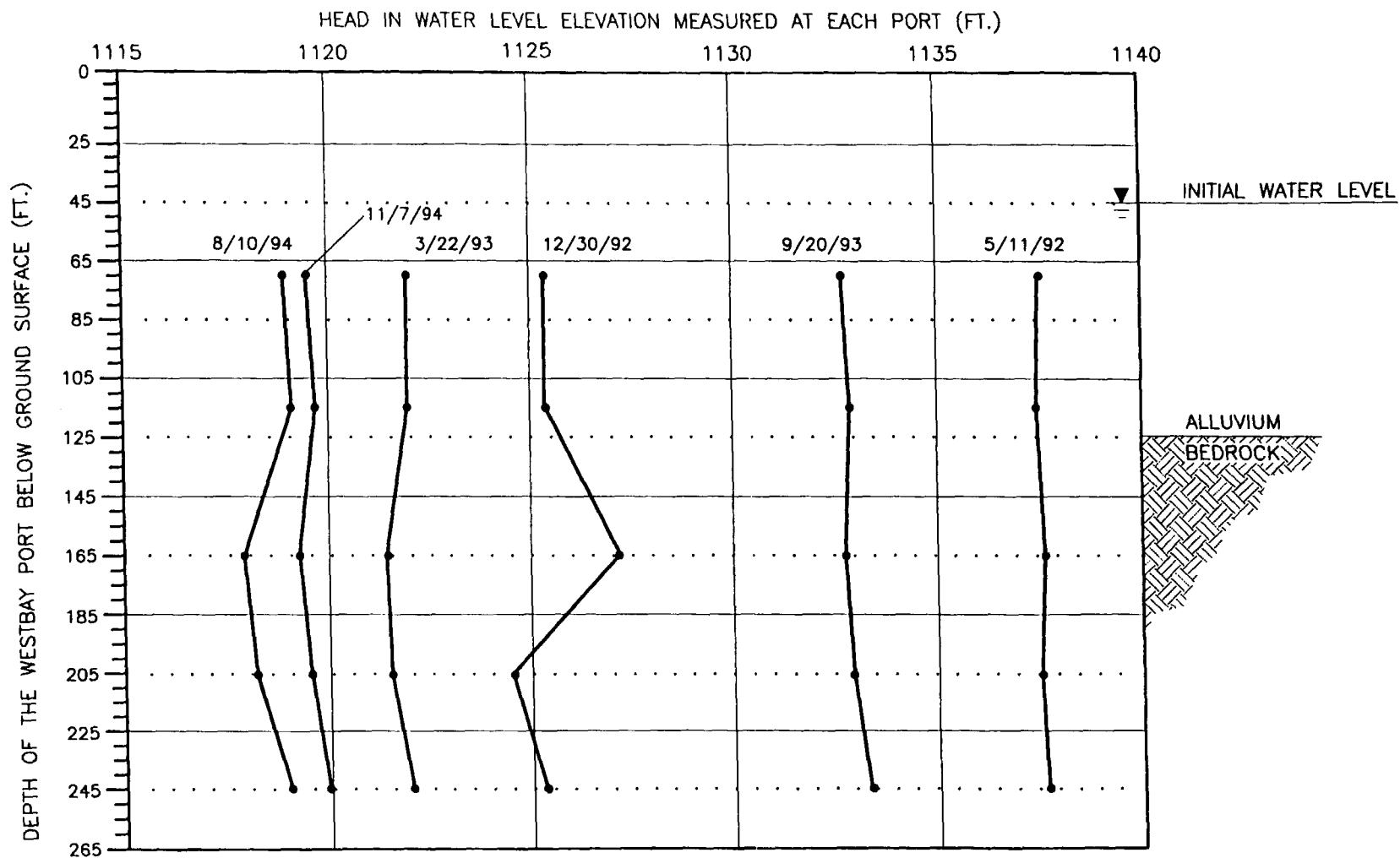
# LEGEND:



# NOTES:

1. LOCATION OF SECTION AA' IS SHOWN ON FIGURE 1.
2. THE SPECIFIC DEPTHS/LOCATIONS OF MEASUREMENT AND PUMPING PORTS, AND MONITOR ZONES ARE PROVIDED IN THE MI52 1992 FR RI REPORT AND OTHER RELATED DOCUMENTS. THE ENTIRE WELL CONSTRUCTION IS NOT SHOWN.
3. THE WATER TABLE WAS PLOTTED USING FALL 1994 DATA.
4. (20) APPARENT DECREASE IN WATER LEVEL IN FEET.  
 ◇ APPARENT INCREASE IN WATER LEVEL IN FEET.  
 (NEGATIVE VALUE REPRESENTS WATER LEVEL INCREASE)  
 0 NO CHANGE IN WATER LEVEL ELEVATION.
5. VALUES IN ( ) NOT USED FOR CONSTRUCTING CONTOURS. EXTRACTION WELL DRAWDOWNS ARE TOO SENSITIVE TO PUMPING RATES.





NOTE: GROUND SURFACE ELEVATION = 1183 FEET

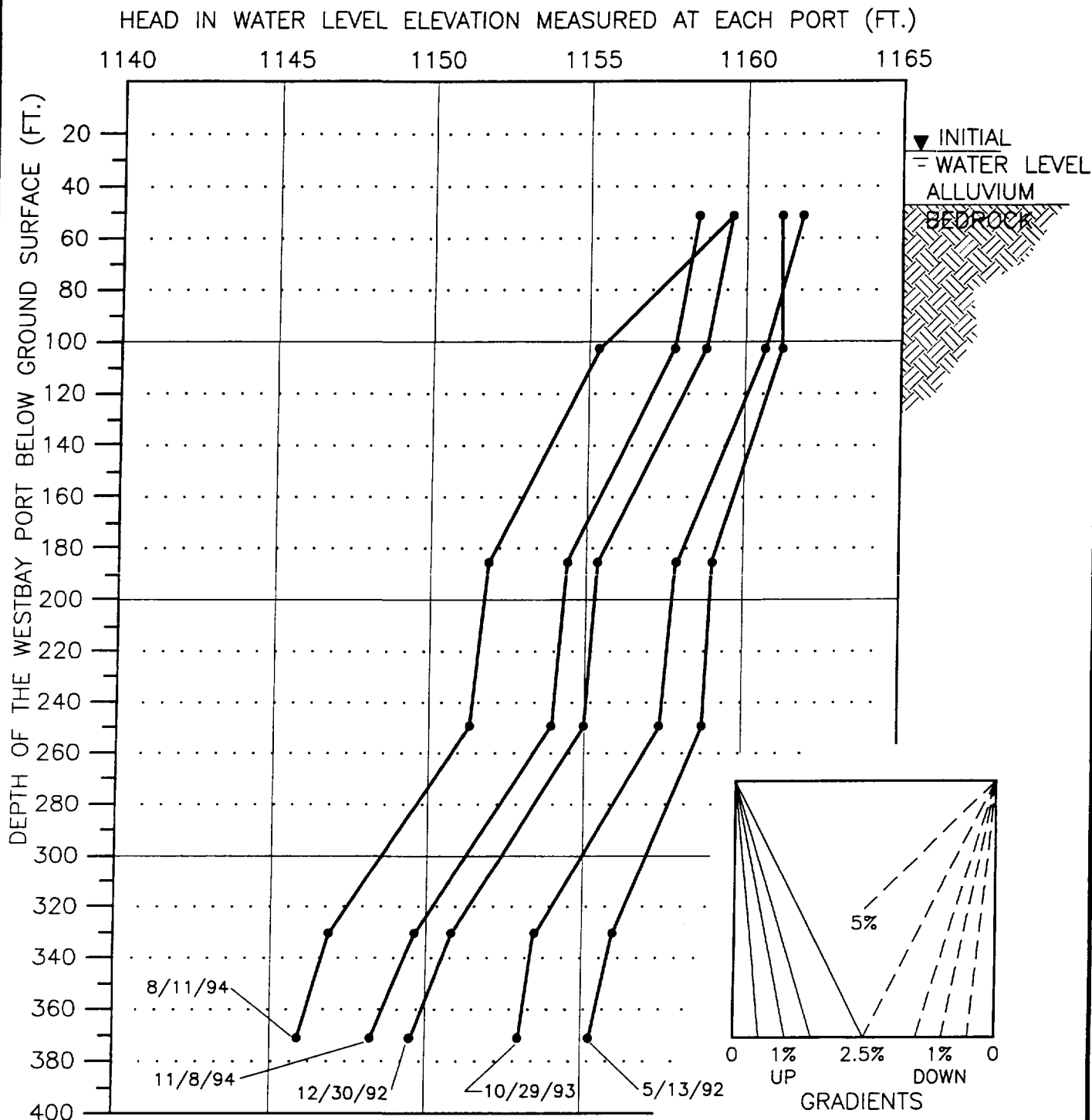
## WATER LEVEL ELEVATIONS AT WESTBAY WELL DM 603

Figure E.6



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NOTE: GROUND SURFACE  
ELEVATION = 1195 (FT.)

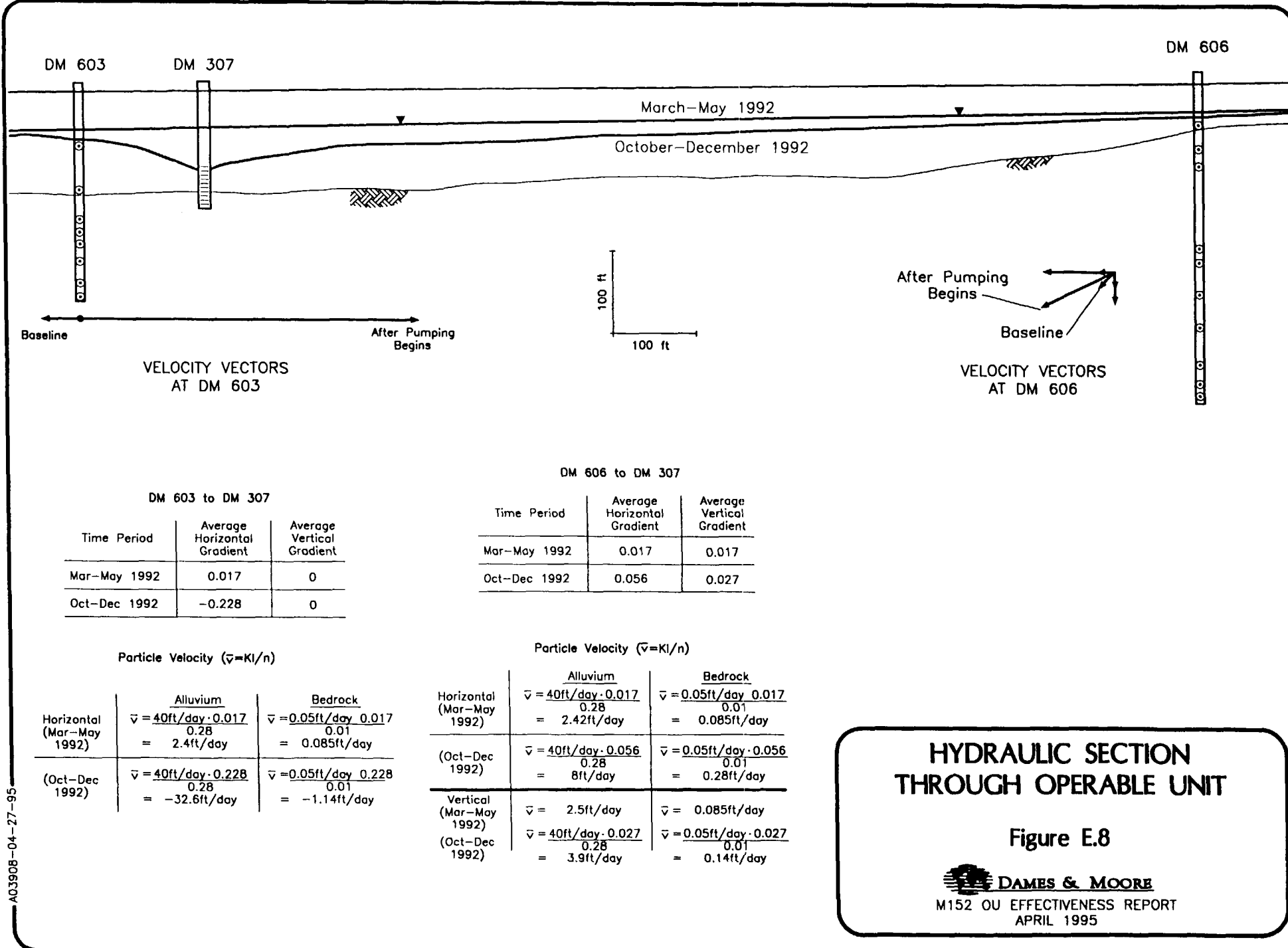
## WATER LEVEL ELEVATIONS AT WESTBAY WELL DM 606

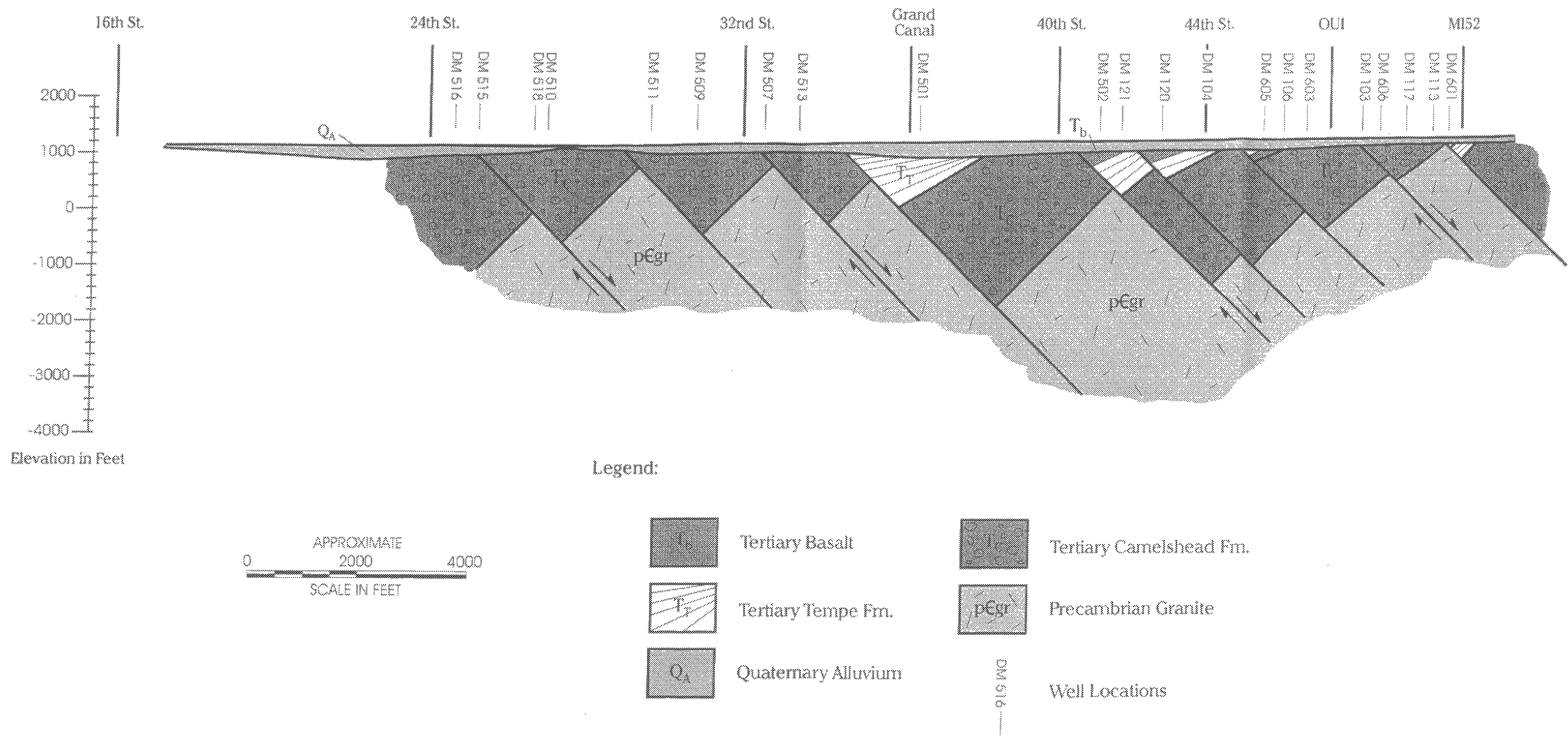
Figure E.7



**DAMES & MOORE**

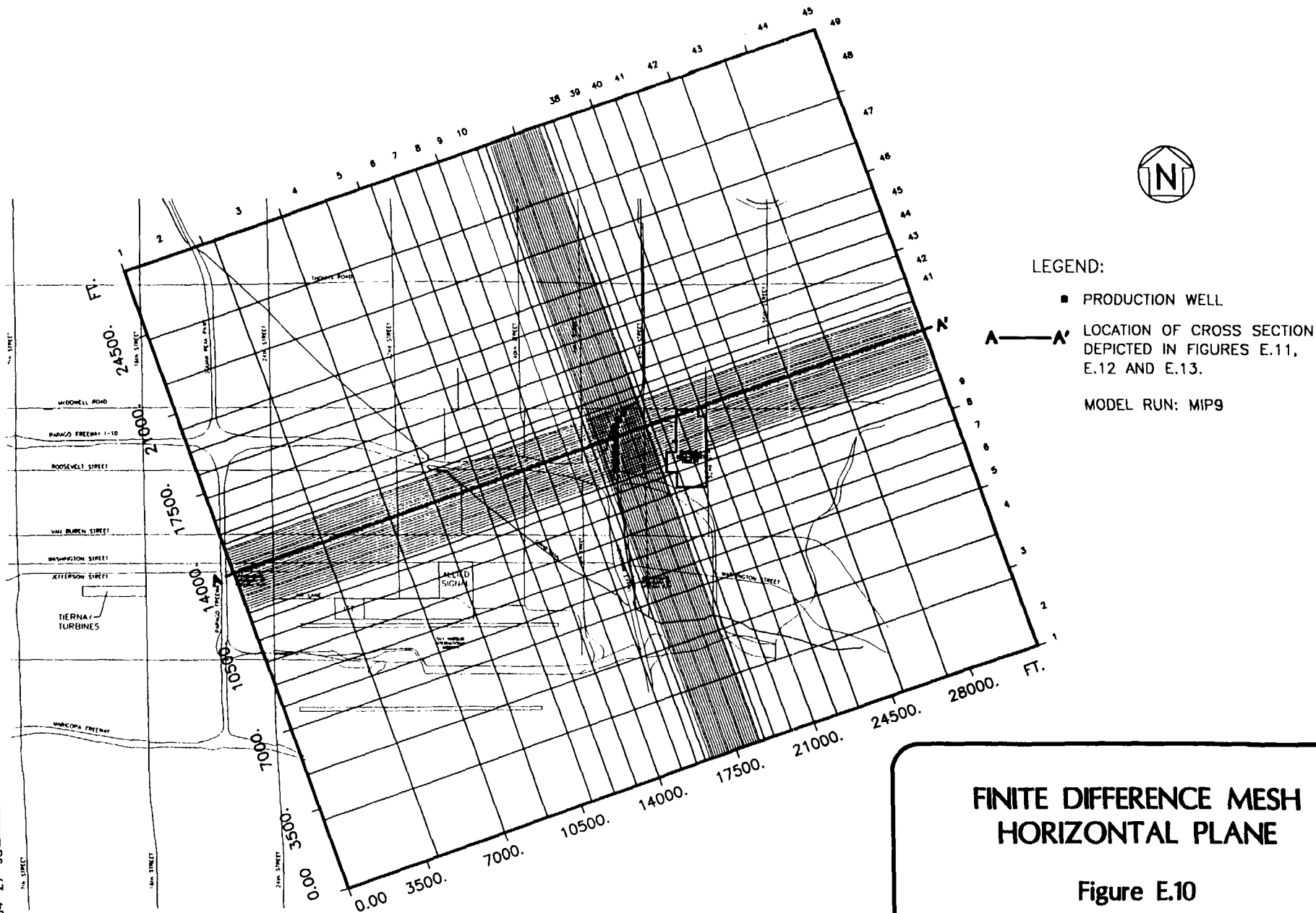
MIS2 OU EFFECTIVENESS REPORT  
APRIL 1995





## Geologic Cross Section (West-East)

Figure E.9

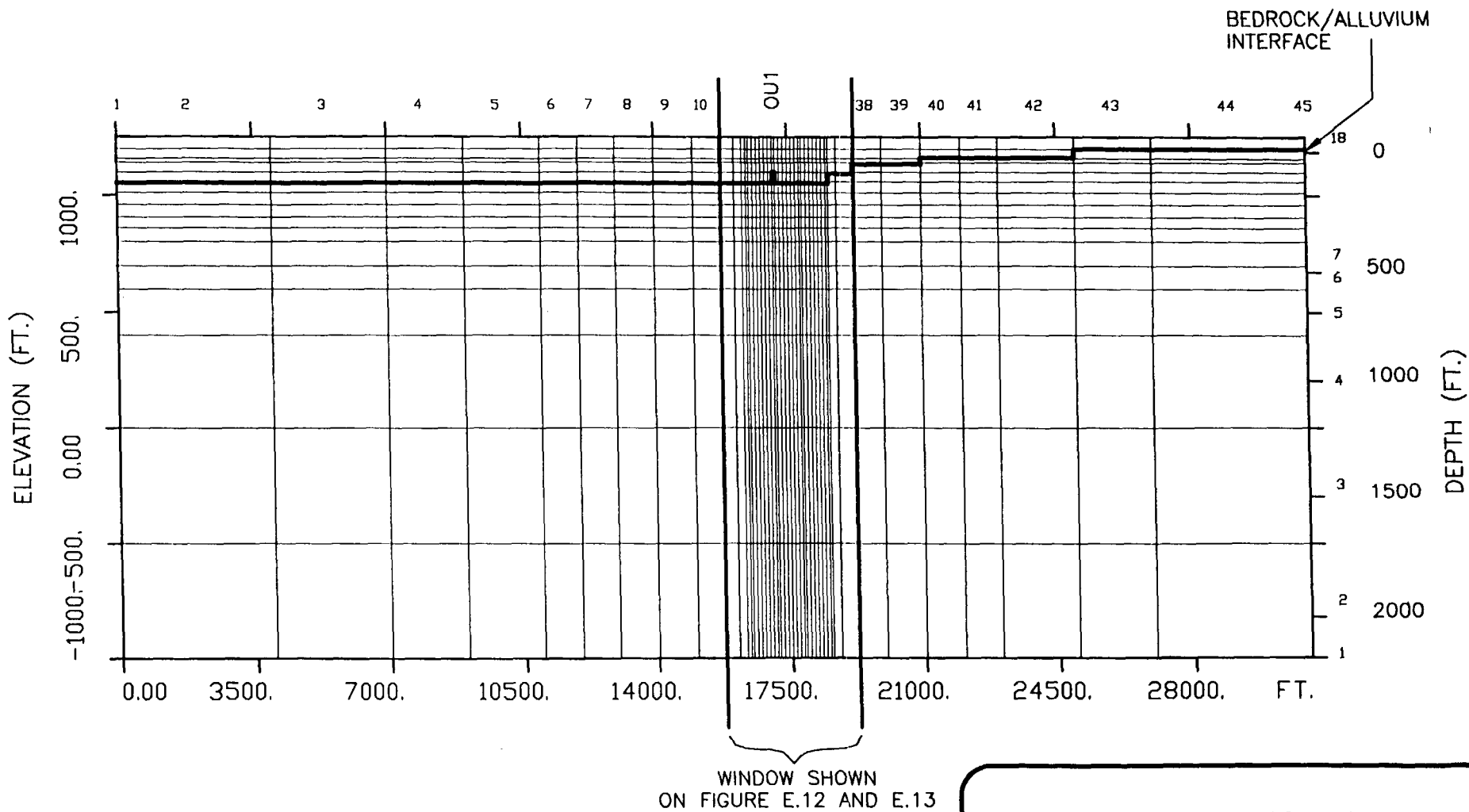


## FINITE DIFFERENCE MESH HORIZONTAL PLANE

Figure E.10



M152 OU EFFECTIVENESS REPORT  
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LEGEND:

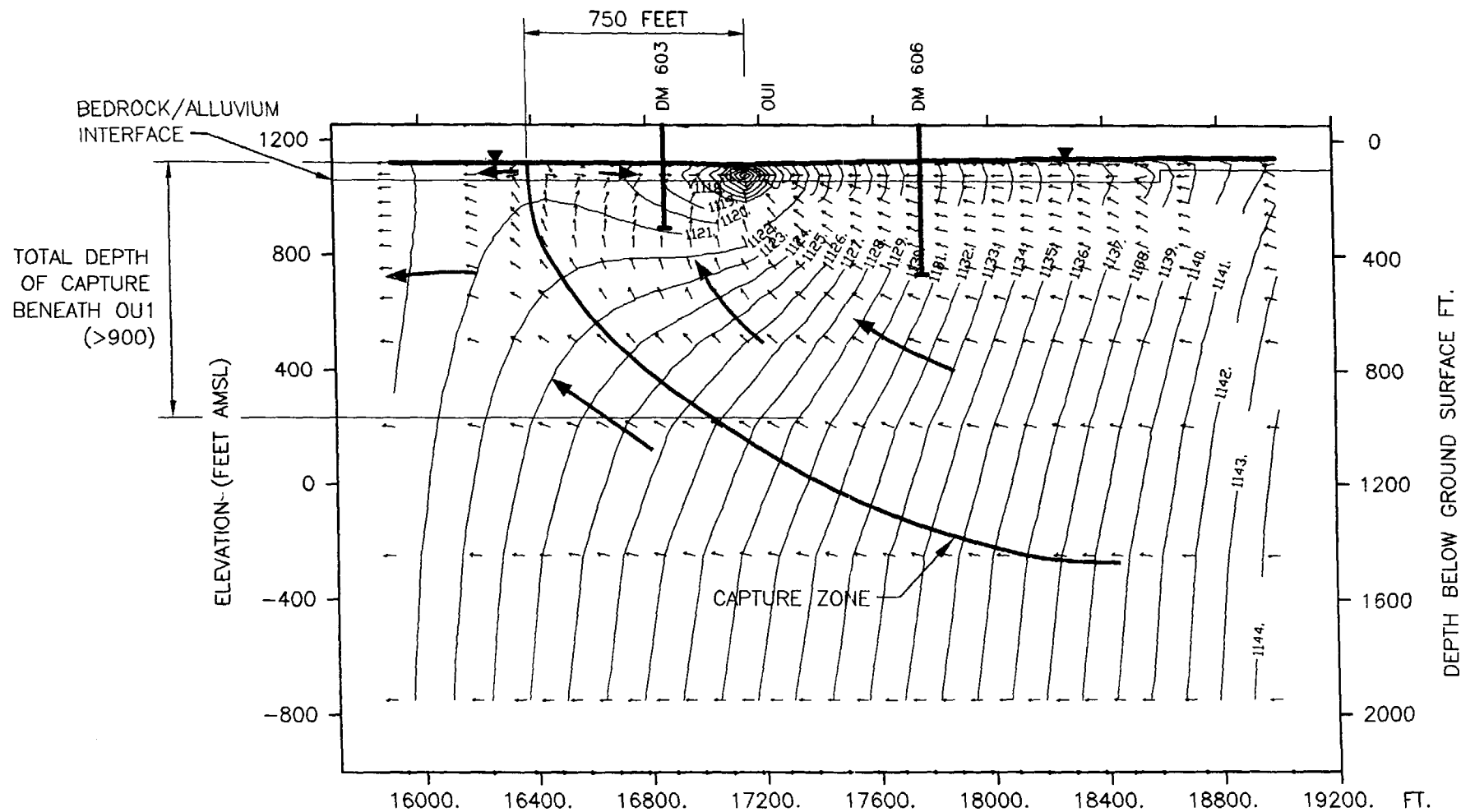
■ PRODUCTION WELL DM 309

MODEL RUN: MIP9

## FINITE DIFFERENCE MESH VERTICAL PLANE

Figure E.11

**DAMES & MOORE**  
M152 OU EFFECTIVENESS REPORT  
APRIL 1995



#### MATERIAL PROPERTIES

|          | Kx   | Ky   | Kz   | feet/day |
|----------|------|------|------|----------|
| ALLUVIUM | 20   | 20   | 2    |          |
| BEDROCK  | 0.05 | 0.05 | 0.05 |          |

$$Kx(bdrk): Kz(bdrk) = 1:1$$

#### LEGEND:

- FLOW DIRECTION ARROW
- HYDRAULIC HEAD ELEVATION (AMSL)

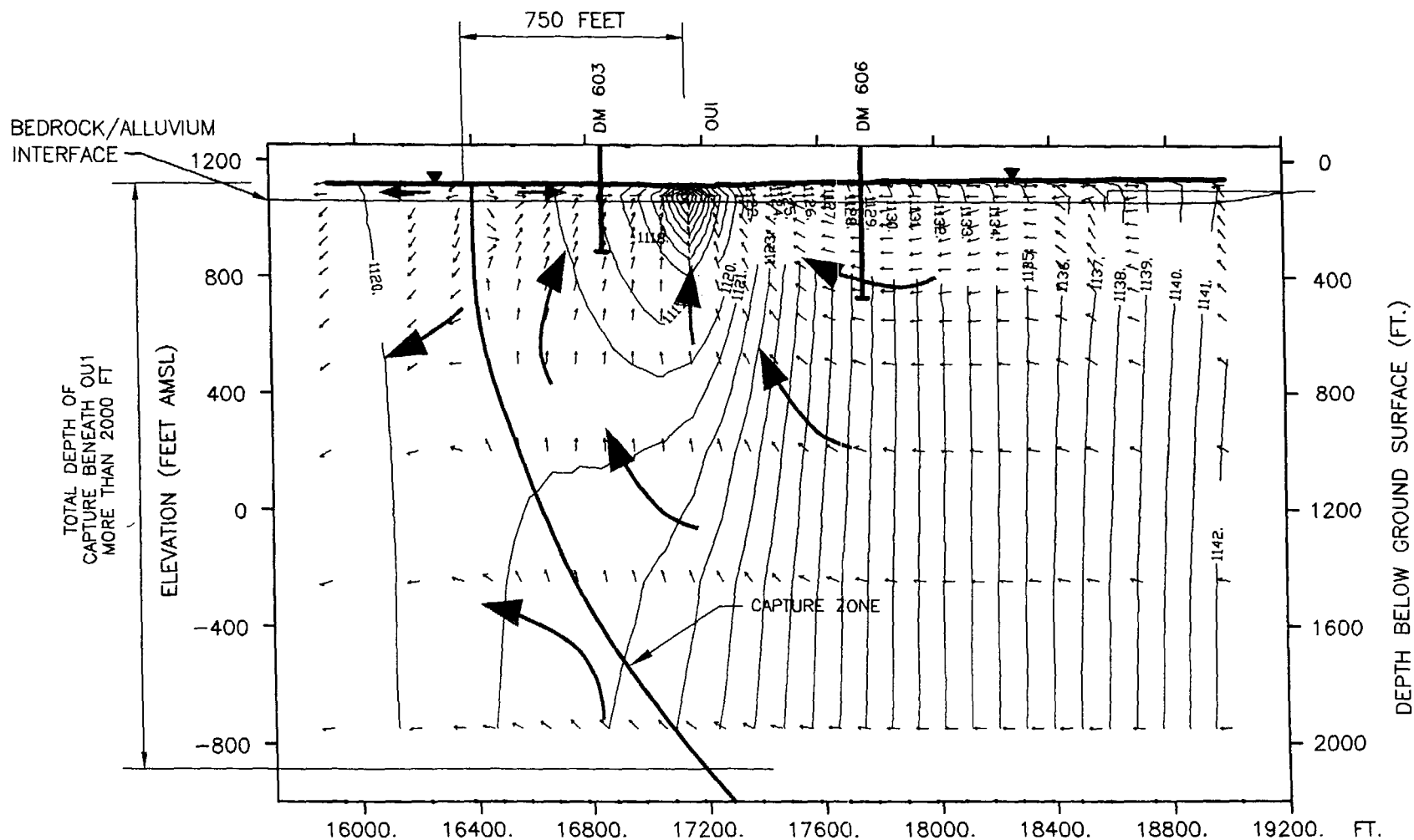
MODEL RUN MIP10

### SIMULATION OF HYDRAULIC CAPTURE WITH ISOTROPIC PERMEABILITY IN BEDROCK

Figure E.12

**DAMES & MOORE**

M152 OU EFFECTIVENESS REPORT  
APRIL 1995



#### MATERIAL PROPERTIES

|          | Kx   | Ky   | Kz   | feet/day |
|----------|------|------|------|----------|
| ALLUVIUM | 20   | 20   | 2    |          |
| BEDROCK  | 0.05 | 0.05 | 0.50 |          |

$$Kx(bdrk): Kz(bdrk) = 1:10$$

#### LEGEND:

— FLOW DIRECTION ARROW

— HYDRAULIC HEAD ELEVATION (AMSL)

MODEL RUN MIP9

### SIMULATION OF HYDRAULIC CAPTURE WITH ANISOTROPIC PERMEABILITY IN BEDROCK

Figure E.13

**DAMES & MOORE**

M152 OU EFFECTIVENESS REPORT  
APRIL 1995

**F**



**MOTOROLA**



April 30, 1998

Maria Fant  
Project Manager  
Federal Projects Unit  
Arizona Department of Environmental Quality  
3033 N. Central Ave.  
Phoenix, AZ 85012

Re: Request for No Further Action - Courtyard SVE System

Dear Ms. Fant:

As you know, Motorola previously requested a determination from ADEQ that no further action is necessary for the vadose zone in the Courtyard area of the Motorola 52nd Street facility. In support of our request, we provided information to ADEQ demonstrating that: i) any residual VOCs remaining in the vadose zone in the Courtyard area pose no significant threat to underlying groundwater; ii) a soil vapor extraction (SVE) system would be ineffective at removing those VOCs which are likely bound in fine grained sediments; and iii) continued operation of the SVE system was neither necessary nor practicable (Hydro Geo Chem, *Evaluation of Soil Remediation by Soil Vapor Extraction*, April 28, 1997). In subsequent meetings, we provided additional information on soil gas data and the economical ineffectiveness of operating the system. At your request, we have compiled the additional information we previously presented into a single letter for your convenience.

In addition to the Hydro Geo Chem investigation referenced above, six soil gas surveys were performed at and around the 52nd Street facility over a 12-year period and the results reported to ADEQ. The soil gas surveys were conducted between 1984 and December, 1995. Attached are figures summarizing the results of these soil gas investigations in the general area of the Courtyard for trichloroethene (TCE), tetrachloroethene (PCE) and 1,1,1-trichloroethane (1,1,1-TCA). These surveys also support the request for closure of the Courtyard SVE system.

As you can see from the data, current soil gas concentrations greater than 500 ug/l are limited to a very small area in the Courtyard in the immediate vicinity of the former dry well. The SVE pilot test was conducted in the Courtyard area from September, 1992 to March, 1993. Soil gas data were collected in the Courtyard area in 1985, prior to the SVE pilot, and in 1995, after the SVE pilot. These data illustrate the pre- and post- SVE soil gas conditions in the Courtyard area, and show that the TCE soil gas concentrations in this area have not decreased significantly over time. As indicated by the data, and as concluded by Hydro Geo Chem after its investigation, further operation of the SVE system likely would not have a sustained impact on vadose zone soil gas concentrations in the vicinity of the former dry well.

Furthermore, once you move away from the former dry well location, and particularly at the facility boundary, observed soil gas concentrations have been stable or have declined over time. Since the 1985 soil gas survey, VOCs in soil gas along the property boundary have been observed only in very low concentrations (generally less than 1 ug/l). These declining or stable low concentrations were observed in four separate soil gas sampling events (March, 1992; July, 1992; November, 1995; and December, 1995).

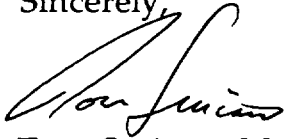
The Arizona Department of Health Services (ADHS) conducted a risk assessment of the 52nd Street Superfund site that included evaluations of the observed soil gas VOC concentrations at and around the Motorola facility (ADHS, 1992). This evaluation concluded that the facility and the site pose no significant risk to public health.

In addition to the rigorous technical evaluation of the practicability of continued SVE operation in the Courtyard area, at ADEQ's request we also reviewed the financial impact of continued SVE operations pursuant to the 1989 Consent Order. The SVE system used in the pilot program was not designed or constructed for long-term, continuous operation. Therefore, it would be necessary to make certain modifications in order to operate the system continuously. The costs for modifying the existing system and operating the upgraded system for approximately 2 years is estimated to be more than \$440,000.00 (see attached table). Clearly, such costs cannot be justified in light of the fact that there is no real remedial benefit for continuing SVE operations in the Courtyard.

Based on the results of the technical and economic evaluations conducted for the Courtyard SVE system, and the fact that the Operable Unit (OU) 1 groundwater extraction and treatment system contains groundwater from the facility, including the Courtyard area, Motorola requests ADEQ's concurrence that no further action is required for the Courtyard area vadose zone and that the 1989 Consent Order requirements for SVE in the Courtyard have been satisfied.

If you have any questions, feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Suriano", written over the word "Sincerely,".

Tom Suriano, Manager  
Remediation and Due Diligence

Enclosures

cc: Bill Ruddiman - ADEQ  
Sharen Meade - Hansen, Meade & Campbell  
Dave Laney - Dames and Moore

**Courtyard SVE Economic Evaluation**  
**Estimated Capital and Operation and Maintenance Costs**

| Cost Item  | No.  | Units  | Unit Cost | Extended Cost    |
|--|------|--------|-----------|------------------|
| <b>I. Capital Costs</b>  |      |        |           |                  |
| a. System evaluation/design costs                              | 1    | ea     | \$40,000  | \$40,000         |
| b. Equipment (catalytic oxidizer w/scrubber, includes freight) | 1    | ea     | \$110,000 | \$110,000        |
| c. Equipment installation                                      | 1    | ea     | \$40,000  | \$40,000         |
| d. Air emissions compliance                                    | 1    | ea     | \$25,000  | \$25,000         |
| e. System startup  | 1    | ea     | \$25,000  | \$25,000         |
| SUBTOTAL - Capital Costs                                       |      |        |           | \$240,000        |
| <b>II. Annual Operation and Maintenance Costs</b>              |      |        |           |                  |
| a. Labor (assumes 20 hours per week)                           | 1040 | hours  | \$60      | \$62,400         |
| b. Utilities (gas, electricity,                                | 12   | months | \$1,300   | \$15,600         |
| c. Catox/scrubber maintenance (5% of cap cost/year)            | 1    | ea     | \$5,000   | \$5,000          |
| d. Waste disposal from scrubber                                | 1    | ea     | \$5,000   | \$5,000          |
| e. Permit compliance   | 1    | ea     | \$10,000  | \$10,000         |
| f. Effectiveness evaluation/closure request                    | 1    | ea     | \$10,000  | \$10,000         |
| SUBTOTAL - Annual O&M Costs                                    |      |        |           | \$108,000        |
| PRESENT WORTH O&M - 2 years operation, 5%                      |      |        |           | \$200,816        |
| <b>TOTAL ESTIMATED PRESENT WORTH COSTS</b>                     |      |        |           | <b>\$440,816</b> |



**ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY  
INTEROFFICE MEMORANDUM**

**RIHU98, 123**

**DATE:** May 19, 1998

**TO:** Maria Fant, Project Manager  
Remedial Projects Unit

**THRU:** Kurt Zeppetello, R.G., Hydrologist  
Remedial Investigations Hydrology Unit

**FROM:** Bill Ruddiman, R.G., Hydrologist  
Remedial Investigations Hydrology Unit

**SUBJECT:** Review of Motorola Request for No Further Action- Courtyard SVE System  
submitted April 30, 1998

The Remedial Investigations Hydrology Unit (RIHU) has reviewed Motorola's amended request for no further action for the Courtyard SVE and has the following comments:

The courtyard SVE system pilot test was conducted in 1992 and early 1993 for a period of approximately 6 months and recovered 350 lbs of contamination from the courtyard area. A full scale courtyard SVE system was not constructed. Analysis by HydroGeoChem Inc., submitted by Motorola to ADEQ, indicated that a significant mass of contamination remains in the vadose zone capable of impacting ground water above M.C.L.'s. Ground water passing through the Courtyard area is captured by the Operable Unit One (OU1) pump and treat system and is reused within the Motorola Plant.

The RIHU agrees with Motorola that continued SVE is not economically justified in light of the cost data presented, the low permeability of the courtyard soils, and the fact that any contamination that reaches ground water will be captured by the OU1 system which is already in place. This does not, however, relieve Motorola of the responsibility of fully delineating the vadose zone contamination and remediating it, prior to final closeout of the site.

The RIHU has also reviewed the soil gas data presented by Motorola and has noted the decrease over time of soil gas concentrations emanating from the Courtyard area. The RIHU requires

Motorola to provide assurances that soil gas will not move towards the adjacent neighborhood to the west, as the soil gas will not be controlled by the SVE system. The RIHU requests a three point soil gas survey to be conducted at five year intervals for the next fifteen years. The soil gas points will be collected at the approximate location of SG3, SG4 and SG5 along the western edge of the Courtyard area. Soil gas samples will be collected from a depth of five feet. If soil gas data collected during the fifteen year interval indicates that soil gas is not migrating offsite and is not a hazard to human health and the environment, no further soil gas monitoring will be required. If soil gas appears to be migrating offsite, Motorola will be required to take whatever action necessary to control the movement of soil gas to confine it to the site.

Please contact me at X-4414 with any questions or comments.

WR/wr

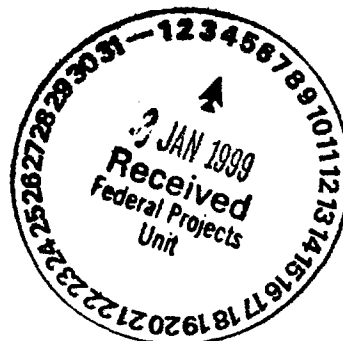
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**MOTOROLA**

December 23, 1998

Ms. Maria Fant, Remedial Project Manager  
Arizona Department of Environmental Quality  
3033 North Central Avenue  
Phoenix, Arizona 85012



Re: Southwest Parking Lot Soil Vapor Extraction System  
Request for No Further Action Determination

Dear Ms. Fant:

Enclosed please find the Soil Vapor Extraction (SVE) System Evaluation Report prepared by Kleinfelder, Inc. that summarizes the construction, startup and operation activities for the SVE system installed in the Southwest Parking Lot ("SWPL") area at the Motorola 52nd Street facility. The report documents that operation of the SVE sub-system in the SWPL area has removed the majority of residual VOC mass from the vadose zone. VOC vapor recovery levels reached asymptotic levels (at approximately one-half pound per day) during the course of SVE operations with no significant rebound observed after shutdown during cyclical operations. Since extracted VOC mass recovery stabilized at very low levels, we believe that the SVE operation has fulfilled its objective and that the vadose zone SVE in the SWPL area is complete.

Based on this information, Motorola requested a no further action determination from the Arizona Department of Environmental Quality ("ADEQ") in a letter dated August 7, 1997. During discussions with ADEQ regarding the no further action determination, ADEQ requested that Motorola conduct additional work to evaluate whether soil concentrations estimated using soil gas concentrations observed in the SWPL would be below the respective ADEQ Soil Remediation Levels (SRLs) and the guidance on groundwater protection levels (GPLs).

In response to ADEQ's request, Motorola contracted with Golder Associates to perform the evaluation. As a first step in the evaluation, Golder estimated soil concentrations using the highest soil gas concentrations detected both before and after operation of the SWPL SVE system. Golder's modeling work using the pre-SVE observed soil gas concentrations (included as Attachment A to this letter) showed that soil concentrations in the SWPL area met the respective GPLs even before operation of the SVE system.

Motorola Inc.

December 23, 1998

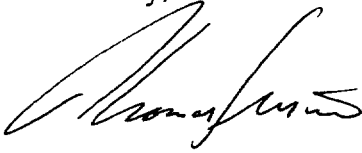
Maria Fant

Page 2

With completion of the vadose zone SVE project and the additional evaluation requested by ADEQ, we believe that Motorola has fully satisfied the terms of the 1989 Consent Order with respect to SVE operations in the SWPL area. Accordingly, we request ADEQ's written concurrence that no further action is required.

If you have any questions, please do not hesitate to call me at 602/952-3238.

Sincerely,

A handwritten signature in black ink, appearing to read 'Thomas Suriano', with a stylized flourish at the end.

Thomas Suriano, Manager,  
Remediation and Due Diligence

cc: Bill Ruddiman - ADEQ  
Sharen Meade - Dames & Moore  
Mike Brilz - Kleinfelder  
Steve Brooks - Golder Associates





**ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY  
INTEROFFICE MEMORANDUM**

**RIHU99,133**

**DATE:** May 3, 1999

**TO:** Maria Fant, Project Manager  
Federal Projects Unit

**THROUGH:** Bill Ruddiman, R.G., Manager   
Remedial Investigations Hydrology Unit

**FROM:** John Kivett, Hydrologist   
Remedial Investigations Hydrology Unit

**SUBJECT:** Review of the *Southwest Parking Lot Soil Vapor Extraction System, Request for No Further Action Determination*, submitted by Motorola 52nd Street Facility, dated December 23, 1998.

The Remedial Investigations Hydrology Unit (RIHU) has reviewed the above subject letter and the associated primary report:

*Soil Vapor Extraction System Evaluation Report, Motorola 52nd Street Facility, Southwest Parking Lot, 5005 East McDowell Road, Phoenix, Arizona, (Report) prepared by Kleinfelder, Inc., dated December 1998.*

In addition, the RIHU also referenced portions of the following supporting documents:

*Task Specification for In Situ Air Sparging/Soil Vapor Extraction System Field Test, SWPL, for Motorola Inc., (Field Test Report) prepared by Dames & Moore, dated February 1993.*

*Draft Southwest Parking Lot Remedial Investigation Report, Motorola 52nd St. Facility, for Motorola Inc., (RIR) prepared by Dames & Moore, dated May 1993.*

*Addendum to the Draft Southwest Parking Lot Remedial Investigation Report, Motorola 52nd St. Facility, for Motorola Inc., (Addendum to the RIR) prepared by Dames & Moore, dated October 1994.*

*Air Sparging/Soil Vapor Extraction Pilot Program, Southwest Parking Lot, Motorola 52nd St., (Pilot Report) prepared by Dames & Moore, dated April 1995.*

*Soil Vapor Extraction System Evaluation Report, Motorola 52nd Street Facility, Southwest Parking Lot, 5005 East McDowell Road, Phoenix, Arizona, (Evaluation Report) prepared by Kleinfelder, Inc., dated December 1998.*

Ms. Maria Fant

May 3, 1999

Page 2 of 3

The RIHU also reviewed the U.S. EPA's comments associated with the Request for NFA Letter and the Evaluation Report:

*Southwest Parking Lot (SWPL) Soil Vapor Extraction System* letter and enclosure provided to the ADEQ, prepared by the U.S. EPA, dated April 21, 1999.

## **Background**

A soil vapor extraction (SVE) system was operated at the Southwest Parking Lot Source Area (SWPL) between November 1996 and April 1997. The system removed approximately 170 pounds of total volatile organic compounds (VOCs) during that time.

Motorola submitted the above referenced evaluation Report and letter as part of a request for no further action (NFA) and satisfaction of the soil remedy requirement in the 1989 Consent Decree. The RIHU has reviewed the request and provides the following comments.

## **General Comments**

1. The RIHU does not find the argument (presented in the cover letter for the Report) that initial or baseline soil gas contaminant levels were below the Arizona GPLs compelling. The presence of groundwater contamination beneath SWPL, which is cross gradient from the Court Yard area, indicate that groundwater was impacted by soil contamination at SWPL. Groundwater contamination in excess of the contaminant MCL, 100 feet down gradient from SWPL, indicates that SWPL soils are or were contaminated in excess of the GPL.
2. SVE operation (and termination) at SWPL should be based on criteria established in the 1989 Consent Decree. Pursuant to the Decree, SVE operation should be conducted until additional operation is economically impractical. When review of the Report under this consideration, the following did not appear to satisfactorily present:

The presentation of data which demonstrate that the SVE was operated to asymptotic performance.

The RIHU recommends the submittal of an addendum to the Report which clearly presents the data to support that the SVE system was operated to asymptotic conditions. When reviewing the addendum, the RIHU will consider the relatively short intervals of cyclic operation of the system. If the data indicate that the system was not operated to an asymptotic state or that the data are inconclusive toward evaluating asymptotic conditions, at a minimum the RIHU will recommend the collection of an additional round of soil gas samples.

3. Cyclic operation of the SVE system was relatively rapid: two cycles of five days on/three days off were conducted. The concern is that full rebound of soil gas contaminants may have not occurred within the system's down-time. The RIHU would expect a SVE cyclic interval on the order of weeks or months. The Report should provide a rationale which explains the brevity of this interval.
4. Post SVE soil gas sampling was performed three days following the conclusion of SVE operation. Again, the concern is that full rebound of soil gas contaminants may not have occurred during this short period. The Report should provide a rationale, with supporting data, which supports the relatively short rebound period.

#### **Specific Comments**

5. Section 3.1, Baseline Groundwater Sampling

The section indicates that baseline groundwater samples were collected and analyzed for VOC concentrations, however no VOC results were reported. Do baseline VOC groundwater sample analyses exist? The Report should be modified accordingly.

6. Section 3.2, Baseline Soil Gas Sampling

The section indicates that consistency was maintained between soil gas sampling events based on analytical results of resampled locations. A table should be included in report which presents the comparative results. The text also indicates that the extraction wells were sampled in both Phase One and Phase Two. Comparative results should also be presented in a tabular form for these samples.

7. Section 4.0, Soil Vapor Extraction Startup and Operation

This section discusses soil gas results collected during the operation of the SVE system. The presentation of these data/results in both tabular and graphical forms should be included in the report. Specifically, tables which present the analytical results for a specific round of samples and graphs which show SVE operation (in linear time) and analytical results, should be incorporated into the report.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

75 Hawthorne Street

San Francisco, CA 94105-3901

April 21, 1999

APR 27 1999  
RECEIVED

Maria Fant  
Project Manager, Federal Projects Unit  
Arizona Department of Environmental Quality  
3033 North Central Avenue  
Phoenix, AZ 85012

Re: Southwest Parking Lot (SWPL) Soil Vapor Extraction System

Dear Maria:

The EPA Technical Support Program with assistance from the Lockheed Martin Idaho Technologies Company has completed a review of the Soil Vapor Extraction System Evaluation Report, Motorola 52nd Street Facility Southwest Parking Lot, prepared by Kleinfelder on behalf of Motorola. Enclosed is a copy of the detailed comments prepared regarding this report that you may wish to share with Motorola. In general, the SWPL report demonstrates that the removal of residual VOC's from the soil was effective during and shortly after the operation of the SVE system, however it may be premature to conclude that the VOC concentrations did not rebound given the measurements were taken only 3 days after termination of the first cycle. EPA recommends that a limited set of additional soil gas samples be collected to verify there has indeed been no rebound in the two years following termination of SVE operations, and that equilibrium post-SVE VOC concentrations are below the ADEQ Groundwater Protection Levels and Residential Soil Remediation Levels.

Should you have any questions, feel free to contact me to set up a conference call with the team that performed the review.

Sincerely,

A handwritten signature in cursive script, reading "Nadia Hollan", is written below the word "Sincerely,".

Nadia Hollan  
Project Manager  
(SFD-7-1)

Encl. 1

cc: John Kivett, ADEQ



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
NATIONAL EXPOSURE RESEARCH LABORATORY  
P.O. BOX 93478 • LAS VEGAS, NV 89193-3478

APR - 9 1999

OFFICE OF  
RESEARCH AND DEVELOPMENT

**MEMORANDUM**

SUBJECT: Review Comments Soil Gas Data Analysis - Motorola 52<sup>nd</sup> Street S. F. Site

FROM: Ken W. Brown, Director, TAC  
Environmental Sciences Division-Las Vegas

A handwritten signature in black ink, appearing to read "Ken Brown", written over the typed name.

TO: Nadia Hollan, RPM  
Region IX

Nadia, as per our conversation, please find attached review comments pertaining to the soil gas effort at the subject Superfund site. The attached comments include a "cover" letter from Lance Peterson, dated April 8, 1999, and a more detailed "interdepartmental communication" dated March 30, 1999 by Robert Starr.

As you will note, Robert recommends that additional soil gas samples be collected to confirm that equilibrium post-SVE concentrations are below SRL's and GPL's. I hope these comments and suggestions are helpful. If you need additional information and/or clarification pertaining to the attached please give me a call at (702) 79802270.

Attachments



LOCKHEED MARTIN

Lockheed Martin Idaho Technologies Company  
P.O. Box 1625 Idaho Falls, ID 83415

April 8, 1999

Mr. Kenneth Brown  
USEPA National Exposure Research Laboratory  
Characterization Research Division/ORD  
P.O. Box 93478  
Las Vegas, NV 89193-3478

REVIEW OF MOTOROLA 52<sup>nd</sup> STREET FACILITY SOIL GAS DATA ANALYSIS - LNP-04-99

Dear Mr. Brown,

At the request of the EPA Technical Support Program, we have completed review of documents summarizing the evaluation of soil vapor extraction at the Motorola 52<sup>nd</sup> Street Facility. The Kleinfelder report, *Soil Vapor Extraction System Evaluation Report, Motorola 52<sup>nd</sup> Street Facility Southwest Parking Lot, 5005 East McDowell Road, Phoenix, Arizona*, has been reviewed with specific attention to data supporting a conclusion that SVE operations have successfully achieved the objective of removing residual VOC's in the soil.

Analytical reports presented in appendices B through H were reviewed by INEEL Sample Management Office personnel to verify that the analytical process and subsequent data validation supported the intended use of the data. The Motorola data has been assessed by data reviewers using the basic data validation techniques specified in the Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Validation. These validation techniques are specified by CLP but the quality control criteria are modified to meet the specific QC applicable to the chosen analytical method. The purpose of validation is to review the data against the specific quality control criteria for the specified method then assign data qualifiers to help the end user to assess the usability of the data.

The L&V report with the most serious discrepancy is for volatile organic compounds by SW-846 Method 8021 in Appendix B of the Motorola report. The reviewer noted that the lab ran extra calibration standards and then arbitrarily chose the standards that met the calibration criteria. Calibrations performed in this manner do not accurately model the calibration response of the analytical instrument. The instrument performance was also questionable due to cyclical changes in baseline and noise spikes in the chromatograms. The validator felt that the lab did not practice due diligence in analyzing the samples due to the calibration discrepancies and electronic noise problems in the background signals. Our review of the surrogate and matrix spike recoveries included with the data indicated that the analytical system was performing adequately during the sample analysis. The calibration discrepancies may indicate that the quantitative accuracy may be below acceptable levels for this set of data.

Technical Memorandum, *SWPL Data Analysis*, December 21, 1998, prepared by Golder Associates was also included in the review. A detailed review of the technical memorandum is provided as Attachment A.

Mr. K. Brown  
March 31, 1999  
LNP-04-99  
Page 2

Overall, the Motorola site SWPL report demonstrates that removal of residual VOC's from the soil was effective during and shortly after operation of the SVE system. The authors noted a rebound of up to 40% between cycles and concluded that this indicated a "lack of rebound." Given that the initial exponential decline required three months of operations and that the measured rebound occurred only 3 days after termination of the first cycle, it may be premature to conclude VOC concentrations did not rebound. Our recommendation is to collect a limited set of additional soil gas samples to verify that there has indeed been no rebound in the two years following termination of SVE operations. Should significant rebound be measured, there would be a concern that a secondary source of VOC contamination still remains in the vicinity of the SWPL site.

If you have any questions, please feel free to call Lance Peterson at 208-526-9738, Bob Starr at 208-526-1170 or Kent Sorenson at 208-526-9597.

Sincerely,



Lance N. Peterson, Advisory Scientist  
Groundwater Restoration

LNP/ss

Attachment

cc: J. Sondrup, LMITCO, MS 2107  
A. Crockett, LMITCO, MS 2213  
Nadia Hollan, SFD-7-1, USEPA, Region 9, 75 Hawthorne St. San Francisco, CA 94105  
G. Stormberg, LMITCO, MS 3855  
B. Starr, LMITCO, MS 3953  
K. Sorenson, LMITCO, MS 3953

**Lockheed Martin Idaho Technologies Company****INTERDEPARTMENTAL COMMUNICATION**

**Date:** March 30, 1999

**To:** Lance Peterson MS 3953 6-9738

**From:** Robert C. Starr MS 3953 6-0174

**Subject:** REVIEW OF MOTOROLA 52ND STREET FACILITY SOIL GAS DATA ANALYSIS  
- RCS-29-99

- References:**
- (a) Golder Associates, 1998. *SWPL Data Analysis*, Technical Memorandum, Reference 983-2413, December 21.
  - (b) Todd, D.K., 1980. *Groundwater Hydrology*, second edition. John Wiley & Sons, New York. New York.
  - (c) Freeze, R.A., and J.A. Cherry, 1979. *Groundwater*. Prentice Hall, Englewood Cliffs, New Jersey.
  - (d) Kleinfelder, Inc., 1998. *Soil Vapor Extraction System Evaluation Report Motorola 52<sup>nd</sup> Street Facility Southwest Parking Lot 5005 East McDowell Road Phoenix, Arizona*. December.

**Background**

At the request of Ken Brown of the U.S. EPA Technical Support Program, I reviewed the information presented in Reference (a). The purposes of the review were: (1) to ascertain if the calculation of the total concentration of VOCs in soil (i.e. the sum of the mass in the gas, aqueous, and sorbed phases) had been done correctly, and (2) to evaluate the conclusions drawn in the report, especially the conclusion that VOC concentrations were less than the GPL (Arizona Department of Environmental Quality Groundwater Protection Level) and the SQL (Arizona Department of Environmental Quality Residential Soil Remediation Level). The review consisted of: (1) determining if the equation used for calculating the total concentrations of VOCs in soils from concentrations in soil gas was correct, (2) checking parameter values for reasonableness, (3) spot checking calculations to determine if they were arithmetically correct, and (4) determining if the conclusions are supported by the data presented.

**Results**

1. **Equation Suitability**—The equation used in Reference 1 for calculating total VOC concentrations in soil is appropriate. The reference cited as the source of the equation is in the peer-reviewed literature, and is frequently referenced for this type of calculation.
2. **Parameter Values Suitability**—Most parameter values used are reasonable. In a few instances, more appropriate values could have been selected. However, the use of slightly inappropriate values does not change the overall interpretation of the post-soil vapor extraction (SVE) data, but does change the interpretation of the pre-SVE data.

The first inappropriate value is the value of temperature used in the conversion of the Henry's Law coefficient from a dimensional form to the dimensionless form. Golder Associates used a value of  $273.135^{\circ}\text{K} \approx 0^{\circ}\text{C}$ . A more appropriate value would be the temperature of the vadose zone where the soil gas samples were collected; temperature data were not presented. The temperature of the vadose zone can be approximated by the temperature of shallow groundwater at the site, which is  $\approx 15^{\circ}\text{C} = 288.15^{\circ}\text{K}$  (Reference b, Figure 7.14, and references cited therein). In this instance, use of the

lower temperature does not affect the conclusions drawn from the data, but it could in other instances.

The value of the Henry's Law coefficient used is for a temperature of 25°C. The value for 15°C would probably be slightly lower, resulting in a larger total soil concentration for a given soil gas concentration. Use of the value for 25°C instead of for 15°C would be important only if concentrations were very close to the regulatory threshold, and if other parameter values were known with similar precision.

The values of porosity and bulk density are interrelated by (Reference c)

$$\theta = 1 - (\rho_{\text{bulk}} / \rho_{\text{grain}})$$

where  $\theta$  = porosity,  $\rho_{\text{bulk}}$  = bulk density, and  $\rho_{\text{grain}}$  = granular density. Figure 1 shows the relationship between porosity and bulk density with a granular density of 2.65 g/cm<sup>3</sup>, which corresponds to silica and is recommended as a default value (Reference c). Although the individual values used by Golder Associates may be reasonable, the combination of values used is not reasonable. The granular density would have to be 1.96 g/cm<sup>3</sup> for the combination of porosity and bulk density used by Golder Associates to occur (Figure 1).

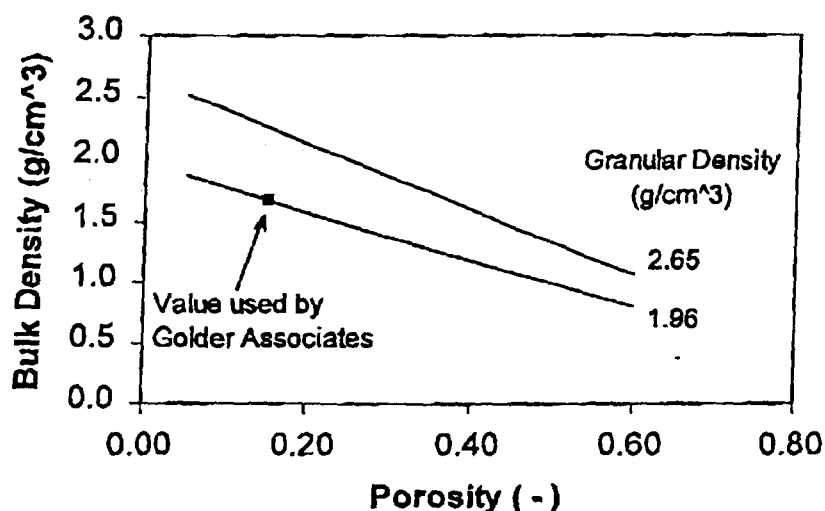


Figure 1 Relationship between porosity and bulk density

The value of total soil concentration was recalculated using either the value of porosity or bulk density used by Golder Associates and the corresponding value of bulk density or porosity, respectively, for a granular density of 2.65 g/cm<sup>3</sup>. Using Golder Associates' assumed value of bulk density (1.67 g/cm<sup>3</sup>) and the corresponding value of porosity (37%), the total soil concentration of 1,1-DCE before SVE was performed (0.53 µg/g) slightly exceeded the SGL (0.36 µg/g), which is contrary to Golder Associates' statement that total soil concentrations "were well below the ADEQ SRLs and GPLs for the contaminants of concern" (Reference a, p. 4). If Golder Associates' assumed

value of porosity and the corresponding value of bulk density are used to calculate total soil concentrations, the maximum values are below SRLs and GPLs. Although selection of a more reasonable combination of values may lead to a conclusion contrary to the one reached by Golder Associates for the pre-SVE data, it does not change the conclusion drawn from the post-SVE data.

3. *Calculation Check*—The calculations appear to be arithmetically correct and conversion of units has been done correctly.

4. *Validity of Conclusions*

Statement 1—"Even the soil concentrations calculated using the highest soil gas concentrations detected before the SWPL SVE system began operation were well below the ADEQ SRLs and GPLs for the contaminants of concern" (Reference a, p 4). As discussed above, total soil concentrations would slightly exceed the SRL if Golder Associates' assumed value of porosity and the corresponding value of bulk density are used for calculating total soil concentration corresponding to the highest soil gas concentration.

Statement 2—"Soil data collected during the SWPL Remedial Investigation ... support the analytical conclusion that soil concentrations currently meet SRLs and GPLs" (Reference a, p. 4). This statement is supported by the data. However, it should be confirmed that sufficient time had passed between shutting down the SVE system and collecting the soil gas samples to allow equilibrium to be reached between VOCs in soil moisture or potential NAPL sources and in soil gas. This cannot be determined from the data presented. Reference d (p. 17) reported that soil gas concentrations increased by more than a factor of three (from 12 ppmv to 38 ppmv) during a three-day shutdown period, which indicates that the system may actively rebound. However, it was not demonstrated that rebound was complete after three days. Hence, the degree to which the post-SVE soil gas concentration data represent equilibrium conditions is not known.

Statement 3—"Measurable soil gas concentrations present in the deeper soil gas probes are likely the result of volatilization from impacted groundwater" (Reference a, p. 4). Although this is plausible, other equally plausible explanations could account for the vertical soil gas concentration patterns observed, such as the presence of a NAPL source in the lower portion of the vadose zone. This statement is not supported by the information presented.

Statement 4—"Because the calculated 'equivalent' soil concentrations (based on soil gas concentrations) do not exceed SRLs or GPLs, further operation of the SVE system is not required" (Reference a, p. 4). The data support the conclusion that total soil concentrations after SVE do not exceed SRLs or GPLs. Again, the caveat applies that it should be confirmed that sufficient time had passed between shutting down the SVE system and collecting the soil gas samples to allow equilibrium to be reached between VOCs in soil moisture or potential NAPL sources and in soil gas.

### *Summary*

The approach used by Golder Associates is appropriate and has generally been performed correctly.

Golder Associates' statement that pre-SVE total soil concentrations were "well below the ADEQ

Lance Peterson  
March 30, 1999  
RCS-29-99  
Page 4

SRLs and GPLs for the contaminants of concern" may not be correct.

Golder Associates' statement that post-SVE total soil concentrations are less than the SRLs and GPLs is justified by the data. This is qualified by the caveat that it must be confirmed that sufficient time had passed between the end of the SVE system operation and gas sample collection for the system to re-equilibrate. It is recommended that additional soil gas samples be collected and analyzed after the SVE system has been shut down for an extended period - on the order of months - to confirm that equilibrium post-SVE concentrations are indeed below SRLs and GPLs.



**MOTOROLA**

March 21, 2001

Kris Kommalan  
Remedial Projects Manager  
Arizona Department Of Environmental Quality  
3033 N. Central Ave.  
Phoenix, Arizona 85012

RE: Closure of SWPL Soil Vapor Extraction System  
Former Motorola 52<sup>nd</sup> Street Facility

Dear Kris:

As we discussed in our meeting of February 7, 2001, we are presenting in this letter additional information regarding closure of the soil vapor extraction (SVE) system in the southwest parking lot (SWPL) of the former Motorola 52<sup>nd</sup> Street facility (now occupied by ON Semiconductor). We also are responding to ADEQ's memo dated May 3, 1999 and EPA's letter dated April 21, 1999 as well as questions raised in our meeting with ADEQ in the summer of 1999 (see Appendix B). For your convenience, and to put the new information into proper context, we are including a brief history of the vadose zone investigations and remediation at the SWPL. Other than a discussion of general water quality and its potential impact on the vadose zone, we do not address the SWPL groundwater remediation system in this letter. This letter report summary was compiled from a review of numerous documents that included soil, soil-gas, and groundwater data for the SWPL area as well as reports and memoranda on the SVE operations. The general layout of the SWPL area is shown on Figure 1.

1. Prior Investigations and Soil Vapor Extraction

As part of its overall site characterization efforts, Motorola conducted both soil and soil-gas investigations in the SWPL area. A number of soil borings were drilled as part of the remedial investigations at the site in the 1980s. Additional borings were drilled (including depths up to 30 feet) in the early 1990s as the investigation expanded and in preparation for conducting a pilot SVE project. Historical soil sample locations from the SWPL area are presented on Figures 2 through 4 and the sampling results are presented in Tables 1 through 3. From these investigations, the extent of soil contamination in the SWPL was determined to be limited to the area immediately below the sump in Building A-D.

Numerous soil gas investigations were conducted at the former Motorola 52<sup>nd</sup> Street facility. Sampling began in 1984 and included some sampling points in the SWPL and adjacent area.

The density of sampling in the SWPL was increased in 1985. Additional soil gas sampling was conducted in the SWPL in 1991 as part of the groundwater remedial investigation and in January 1992 in preparation for the pilot SVE test. The soil gas sampling locations and respective concentrations for TCA, TCE, DCE and/or PCE are presented in Figures 5 through 21 and the sampling results are presented in Tables 4 through 9. Figures were prepared in past reports showing the soil gas sample locations for the various investigations and sampling results for individual constituents (i.e., TCE, TCA, PCE, DCE) where higher concentrations were observed. In some cases, no figures were prepared in these past reports for constituents that were non-detect or at very low concentrations. However, a summary of the sampling results for the four constituents analyzed is presented in tables 4 through 9.

A pilot SVE and a preliminary voluntary air sparging test was conducted by Dames & Moore in the SWPL from February 11 through February 25, 1993. The primary purpose was to test the feasibility of SVE in the SWPL and AS/SVE in the Building A-D areas. The pilot test consisted of one air sparging well (AS002) located in the chemical storage area of the Building A-D, three soil vapor extraction wells (TW001, TW002, and TW003) and 10 monitoring wells (TW002, DM201OB1, DM201OB3, DM707, DM713, DM714, DM715, DM716, DM717, and DM718) (see Figure 22). During the pilot test, approximately 269 pounds of VOCs were removed from the vadose zone (Table 10) (Dames & Moore AS/SVE Pilot Program Report, 1995). Soil gas concentrations during the SVE pilot and during the air sparging pilot test are shown on Figure 23 and in Tables 11 and 12.

A full-scale SVE operation was conducted in the SWPL from November 1996 through April 1997. The system consisted of six SVE wells, including the original extraction well from the 1993 pilot test located within Building A-D, and 19 vapor monitor probes (Figure 24). Over 170 pounds of VOCs were removed during system operation. Soil gas samples were taken prior to start-up of the full-scale operation (October 22-23 and November 4-5, 1996), during operation, and after completion of operation (April 21-23, 1997). The pre- and post-SVE data for the vapor extraction wells and shallow and deep vapor probes are presented on Figures 25 through 27, and Tables 13 and 14, respectively. Concentrations during system operation are presented on Figure 28 and in Table 15.

The April 1997 post-SVE sampling did not show any significant rebound effect (SVE System Evaluation Report, Kleinfelder, December 1998). Additional soil gas monitoring was conducted approximately one month later as part of the air sparging pilot start-up. Baseline samples were obtained on May 16, 1997 from each extraction well and at the vapor monitor probes and confirmed that the vadose zone had reached asymptotic levels (see Figure 28). Motorola requested closure of the SVE system, but inadvertently omitted the May 1997 pre-air sparging data now shown on Figure 28 and in Table 15.

In response to Motorola's request for closure, ADEQ asked that Motorola estimate (using soil gas data) what VOC concentrations in soil would have been in the SWPL area prior to operation of the SVE system. Motorola agreed to conduct this more detailed evaluation even though for closure of the SVE system the Consent Order only requires a showing that stable, minimal concentrations of recovery have been reached or that it is no longer economical to continue SVE operations. Motorola contracted with Golder Associates to model pre- and post-SVE soil gas

data to estimate the soil concentrations. Based on the modeling results, Golder concluded that pre-SVE soil concentrations in the vadose zone would have been below the ADEQ soil remediation levels (SRLs) and groundwater protection levels (GPLs) for the contaminants of concern (Golder Associates, Technical Memorandum re: SWPL Data Analysis, December 21, 1998).

Motorola submitted its final SVE report (SVE System Evaluation Report, Kleinfelder, December 1998) to ADEQ, but inadvertently omitted the May 1997 pre-air sparging data. These data clearly demonstrated that the SVE system reached asymptotic levels and that the Consent Order requirements were met.

## 2. Significance of Findings.

The conceptual model for the SWPL release indicates a limited impact (see Figure 29). It was determined from the various surveys that Building A-D was the primary source and that the contaminated soil was limited to the building's sump area. Soil gas dispersed into the vadose zone surrounding the sump area, but was fairly well confined to that general area. Groundwater was impacted by the release, but resulted in a limited plume which is contained by the voluntary SWPL groundwater extraction system.

The data gathered to date for the SWPL and other 52<sup>nd</sup> Street facility evaluations confirm the conceptual model and support closure of the SVE system. The Golder work showed that even before operation of the SVE system, soil concentrations were likely below the GPLs for the constituents of concern. After operations of the SVE system, those concentrations were significantly below the GPLs. The soil borings showed that the soil contamination in the SWPL was limited to the area below the sump in Building A-D. (Dames & Moore Air Sparging/Soil Vapor Extraction Pilot Program SWPL report, 1995). Outside that area, concentrations were either very low or not detectable. Soil borings drilled as part of a soil-gas evaluation of the area to the west of the 52nd Street facility to the Old Cross Cut Canal (Tracer Research Corporation, 1996) showed no detectable or very low levels of VOCs in the vadose zone along the western boundary of the SWPL. These results when compared with 1992 sampling results, showed a decrease in VOC concentrations in soil gas in areas adjacent to the 52nd Street facility.

The soil gas data also indicated the Building A-D sump as the potential source for the VOCs in groundwater and soil in the vicinity of the SWPL. (Dames & Moore Draft SWPL RI Report, 1994). The data showed minimal concentrations in the shallow vadose zone outside the area of the suspected source at Building A-D. Concentrations from deeper in the vadose zone are likely the result of volatilization or partitioning from impacted groundwater and not the result of impacted soil.

The vadose zone data indicate that the potential source near Building A-D had a limited impact. No VOCs have been detected in soils and the most recent soil gas data show no significant levels. The limited impact of the contamination is also evidenced by the areal extent of groundwater contamination. The contamination is located in a relatively small area where

groundwater is contained on-site by the groundwater extraction and treatment system being operated by Motorola. Historical groundwater concentrations for the SWPL wells are presented in Appendix A.

Over 430 pounds of VOCs were removed from the vadose zone during operation of the pilot (1993) and full-scale (1997) SVE systems. Soil gas concentrations leveled off by the time the full-scale operation was completed. Data taken three days after the shut-down showed no significant rebound. Additional data gathered approximately a month after the shutdown confirmed that the SVE system was operated to asymptotic levels (Figure 28).

The final SVE data was obtained using a flame ionization detector (FID). ADEQ has raised the question of whether these are appropriate data from which to determine whether asymptotic levels have been reached. FID monitoring is capable of detecting all the contaminants of interest in the SWPL area. An appropriate calibration gas (1,1,1-TCA) was selected to be representative of the SWPL area contaminants. The FID monitoring in the SWPL area was a direct measurement of the extracted soil-gas; therefore, there was no potential loss due to sampling or analytical procedures. The FID instrument was zeroed and calibrated prior to each monitoring event. The calibration was performed to a certified standard of 1,1,1-TCA that was appropriate for the range of concentrations observed.

The 1989 OU Consent Order requirements relating to closure of the SVE system are qualitative standards based on total VOC concentrations. Total VOCs are appropriately measured with a FID monitor and the data obtained are valid for evaluating SVE operations and showing that the closure requirements of the Consent Order have been met. The data obtained in May 1997, nearly a month after system shut-down, combined with the data gathered several days after system shut-down confirm that the SWPL SVE system was operated to asymptotic levels.

### 3. Responses to ADEQ's "Specific Comments," May 3, 1999 memorandum.

Sections 1 and 2 of this letter address ADEQ's and EPA's general comments from their 1999 letters (Appendix B). The following discussion addresses ADEQ's specific comments in the May 1999 letter.

#### 5. Section 3.1, Baseline Groundwater Sampling

*The section indicates that baseline groundwater samples were collected and analyzed for VOC concentrations, however no VOC results were reported. Do baseline VOC groundwater sample analyses exist? The Report should be modified accordingly.*

This section on Baseline Groundwater Sampling in the Kleinfelder report erroneously reported that samples for VOC concentrations were summarized in Table 3 (of that report) and analyses presented in Appendix C. Table 3 and Appendix C presented chemical oxygen demand, total phosphorous, nitrate, total organic carbon, biochemical oxygen demand, and other parameters, but not VOCs.

Groundwater sampling has been conducted by Dames & Moore and Gutierrez Palmenberg, Inc. (GPI) since 1983 as part of the 52<sup>nd</sup> Street Superfund Site remediation

investigation and groundwater monitoring program. Appendix A presents TCE, TCA, DCE, and PCE concentrations in groundwater from monitoring wells in the SWPL area.

#### 6. Section 3.2, Baseline Soil Gas Sampling

*The section indicates that consistency was maintained between soil gas sampling events based on analytical results of resampled locations. A table should be included in the report which presents the comparative results. The text also indicates that the extraction wells were sampled in both Phase One and Phase Two. Comparative results should also be presented in tabular form for these samples.*

Tables 13 and 14 and Figures 25 through 27 of this letter report present baseline soil gas sampling results from the three phases of sampling conducted by Kleinfelder (1998). Tables 13 and 14 summarize sampling analyses of selected VOCs (DCE, TCA, TCE and PCE) from extraction wells, shallow vapor probes, and deep vapor probes. The 1998 Kleinfelder report presented this additional VOC data for soil gas sampling in Tables 5 through 8.

#### 7. Section 4.0, Soil Vapor Extraction Startup and Operation

*This section discusses soil gas results collected during the operation of the SVE system. The presentation of these data/results in both tabular and graphical forms should be included in the report. Specifically, tables which present the analytical results for a specific round of samples and graphs which show SVE operation (in linear time) and analytical results, should be incorporated into the report.*

Figure 28 and Table 15 of this letter report were prepared based on additional data from Kleinfelder as part of the SVE start-up testing. Total VOCs were calculated based on FID readings. The data show the soil gas results collected during the operation of the SVE system from December 1996 through April 1997 and the baseline prior to the Air Sparge test in May through June 1997. In the Kleinfelder 1998 report, Plate 15 showed extracted VOC concentrations in terms of the FID readings over time. The SVE results were not clearly demonstrated because of the omission of the May 1997 baseline data. Figure 28 of this letter report more clearly demonstrates the reduction in soil gas VOCs. The SVE system was operated to asymptotic levels and there are no significant levels in the vadose zone.

In closing, the soil, soil gas, and groundwater data presented or referenced in this letter support the conceptual model of a limited release in the SWPL area with limited impact. The pilot and full-scale SVE systems removed a significant amount of VOCs from the vadose zone (much of which may have volatilized from groundwater). The SVE data show that the system was operated to asymptotic levels and the soil gas data show no significant levels remaining in the vadose zone. These data show that the requirements of the 1989 Consent Order have been met and support closure of the SWPL SVE system.

Motorola respectfully requests that ADEQ review the information presented in this letter and issue a closure letter for the SWPL vadose zone work. If you have any additional questions, feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Suriano".

Tom Suriano,  
Manager, Remediation & Due Diligence

cc: Nadia Hollan, EPA  
John Kim, Harding ESE  
Sharen Meade, Clear Creek Associates



# THE ARIZONA REPUBLIC

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**NOTICE OF FIVE YEAR REVIEW**  
The Arizona Department of Environmental Quality (ADEQ) announces the 2000 Five Year Review of the Operable Unit 1 soil and groundwater remedies at the Motorola Second Street Federal Superfund Site, Section 121C of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) state that a remedial action that resulted in hazardous substances, pollutants, or contaminants remaining at the site shall be reviewed no less frequently than every five years.  
ADEQ initiated the Five Year Review process in July 2000 and anticipates completion by November 2000. The findings of the Five Year Review will be available to the public in December 2000 at the following information repositories:  
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Any questions regarding the Five Year Review for the Motorola Second Street Site may be directed to Kris Kornblum, ADEQ, at (602) 257-4193. In Arizona, outside the Phoenix area, call 1-800-224-5677, ext. 4193. Hearing impaired may call TDD line at (602) 257-4827. Dated this 27 day of August, 2000.  
Jacqueline E. Schafer  
Arizona Department of Environmental Quality  
60388-AUGUST 27, 2000

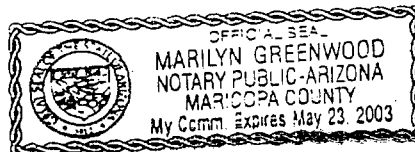
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5

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ADEQ initiated the Five Year Review process in July 2000 and anticipates completion by November 2000. The findings of the Five Year Review will be available to the public in December 2000 at the following information repositories:

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City of Phoenix Public Library Saguaro Branch 2808 North 46th Street Phoenix, AZ (602) 262-6802

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Any questions regarding the Five Year Review for the Motorola 52nd Street Site may be directed to Kris Kommalar, ADEQ, at (602) 207-4193. In Arizona, outside the Phoenix area, call 1-800-234-5677, ext. 4193. Hearing impaired may call TDD line at (602) 207-4827. Dated this 31 day of August, 2000.

Jacqueline E. Schafer  
Arizona Department of Environmental Quality  
Published: August 31, 2000

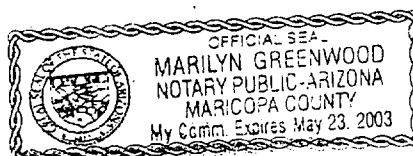
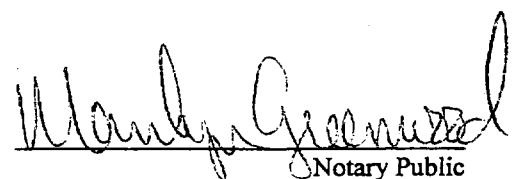
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## AVISO DE EXAMEN DE CINCO AÑOS SITIO DEL SUPERFONDO MOTOROLA CALLE 52

El Departamento de Calidad Ambiental de Arizona (ADEQ) anuncia el Examen de Cinco Años del Año 2000 de los remedios para el suelo y las aguas subterráneas de la Unidad en Operativa I en el Sitio del Superfondo Federal Motorola Calle 52. La Sección 121C de la Ley de Respuesta, Compensación y Responsabilidad ambiental Inclusiva (CERCLA), como enmendada, y el Plan Nacional de Contingencia contra la Contaminación de Petróleo y Sustancias Peligrosas (NCP) indica que una acción de remedio que resultó en sustancias peligrosas o contaminantes que permanecieran en el lugar serán examinadas con una frecuencia de por lo menos cada cinco años.

ADEQ inició el proceso del Examen de Cinco Años en julio de 2000 y anticipa su conclusión a más tardar para noviembre de 2000. Los resultados del Examen de Cinco Años estarán a disposición del público en diciembre de 2000 en los siguientes depósitos de información:

**Coordinador ADEQ del Expediente del Superfondo**  
3033 Avenida Central Norte  
Phoenix, AZ  
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Phoenix, AZ  
(602) 262-6802

**Biblioteca Pública de la Ciudad de Phoenix**  
Sucursal Central  
1221 Avenida Central Norte  
Phoenix, AZ  
(602) 262-4636

Cualquier pregunta relacionada con el Examen de Cinco Años para el Sitio Motorola Calle 52 puede ser dirigido a Kris Kommalan, ADEQ, al (602) 207-4193. En Arizona, fuera del área de Phoenix, llame al 1-800-234-5677, ext. 4193. Minusválidos del oído pueden llamar a la línea TDD al (602) 207-4827.

Con fecha de 20 de Septiembre de 2000.

Jacqueline E. Schafer.

Departamento de Calidad Ambiental de Arizona.



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Tuesday, Sept. 26

**Parks**  
7:30 a.m.  
First floor auditorium  
Burton Barr Central Library  
1221 N. Central Ave.  
**Citizens Support Services**  
11:00 a.m.  
Tour  
ASU Downtown  
502 E. Monroe St.  
**Neighborhood Reinvestment**  
4:00 p.m.  
First floor assembly rooms

City Hall

200 W. Washington St.

Friday, Sept. 29

**Community Transportation**

**Improvements**

3:00 p.m.

12th floor

City Hall

200 W. Washington St.

**Fire**

11:00 a.m.

20th floor

APS building

400 N. Fifth St.

**Monday, Oct. 2**

**Fire**

11:00 a.m.

20th floor

APS building

400 N. Fifth St.

Tuesday, Oct. 3

**Community Transportation**

**Improvements**

3:00 p.m.

12th floor

City Hall



## INTERVIEW DOCUMENTATION FORM

The following is a list of individuals that were interviewed during the implementation of the five-year review conducted during the period from: 02/07/01 to: 06/06/01.

|   |   |  |                         |
|---|---|--|-------------------------|
| <u>TOM SURIANO</u><br>Name                            | <u>MANAGER</u><br>Title/Position                      | <u>MOTOROLA</u><br>Organization            | <u>02/07/01</u><br>Date |
| <u>DR. DAVID HUNTLEY</u><br>(FOR KATH BOWERS)<br>Name | <u>PROFESSOR</u><br>Title/Position                    | <u>SAN DIEGO STATE UN.</u><br>Organization | <u>02/14/01</u><br>Date |
| <u>BOB ATKINSON</u><br>Name                           | <u>DIRECTOR HEALTH &amp; SAFETY</u><br>Title/Position | <u>ON SEMICONDUCTOR</u><br>Organization    | <u>03/20/01</u><br>Date |
| <u>LARRY RODRIGUEZ</u><br>Name                        | <u>OPERATIONS MANAGER</u><br>Title/Position           | <u>GPI</u><br>Organization                 | <u>03/20/01</u><br>Date |
| <u>LEO WILSON</u><br>Name                             | <u>TECHNICIAN</u><br>Title/Position                   | <u>GPI</u><br>Organization                 | <u>03/20/01</u><br>Date |
| <u>SIM LERMON</u><br>Name                             | <u>GEOLOGIST</u><br>Title/Position                    | <u>GATEWAY TAG</u><br>Organization         | <u>05/30/01</u><br>Date |
| <u>KAREN O'NEGAN</u><br>Name                          | <u>WAB MEMBER</u><br>Title/Position                   | <u>COP</u><br>Organization                 | <u>05/30/01</u><br>Date |
| <u>MARIA FANT</u><br>Name                             | <u>PROJECT MANAGER</u><br>Title/Position              | <u>ADEQ</u><br>Organization                | <u>05/31/01</u><br>Date |
| <u>MASON BOLITHO</u><br>Name                          | <u>MANAGER</u><br>Title/Position                      | <u>ADWR</u><br>Organization                | <u>05/31/01</u><br>Date |
| <u>STEVE BRITTLE</u><br>Name                          | <u></u><br>Title/Position                             | <u>DON'T WASTE A B</u><br>Organization     | <u>05/31/01</u><br>Date |

## INTERVIEW DOCUMENTATION FORM

The following is a list of individuals that were interviewed during the implementation of the five-year review conducted during the period from: 02/07/01 to: 06/01/01.

BILL RUDDIMAN  
Name

PROJECT MANAGER  
Title/Position

ADEQ  
Organization

05/31/01  
Date

NADIA HOLLAN  
Name

PROJECT MANAGER  
Title/Position

ERA REGION 9  
Organization

06/01/01  
Date

CODY WILLIAMS  
Name

COUNCILMAN  
Title/Position

COP COUNCIL  
Organization

06/06/01  
Date

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title/Position

\_\_\_\_\_  
Organization

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Title/Position

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Organization

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Date

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Organization

\_\_\_\_\_  
Date

**INTERVIEW QUESTIONNAIRE  
MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE  
OPERABLE UNIT 1**

**TOPIC:** SITE OPERATIONS, MAINTENANCE & MONITORING.  
(SITE MANAGER, O&M MANAGER, SITE STAFF &  
CONSULTANTS)

**INTERVIEWEE:** TOM SURIANO  
MANAGER, REMEDIATION & DUE DILIGENCE  
MOTOROLA SPS

**DATE:** FEBRUARY 16, 2001 *INTERVIEW DATE 02/07/01*

1. *What is/was your understanding of the overall remedy (OU1) at the Site?*

The overall OU1 remedy consists of: i) an on-site soils component; and ii) an on-site and off-site groundwater containment component. Each of these is described, briefly, below.

The on-site soils remedy has been implemented in the Courtyard area and the Southwest Parking Lot (or "SWPL") area of the 52<sup>nd</sup> Street facility. I believe that the data support the conclusion that the performance criteria set forth in the Consent Order have been met and that No Further Action determinations are warranted for both these soils remedies. Initial operations are discussed in the report "Soil Vapor Extraction Pilot Program Summary Report; Motorola 52<sup>nd</sup> Street; Courtyard Area", Dames & Moore, December, 1994. Information supporting the closure of the Courtyard Area SVE system is set forth in the report "Evaluation of Soil Remediation by Soil Vapor Extraction; Courtyard Area; Motorola 52<sup>nd</sup> Street Facility", Hydro Geo Chem, Inc., April 28, 1997; and follow-up letters to ADEQ dated August 21, 1997 and April 30, 1998. Initial operations are discussed in the report "Air Sparging/Soil Vapor Extraction Pilot Program Report; Southwest Parking Lot; Motorola 52<sup>nd</sup> Street", Dames & Moore, April 1995. Information supporting the closure of the SWPL system is set forth in the report "Soil Vapor Extraction Evaluation Report; Motorola 52<sup>nd</sup> Street Facility; Southwest Parking Lot", Kleinfelder, December, 1998 and the accompanying letter report to ADEQ dated December 23, 1998. Additional information supporting the closure of the SWPL SVE system is provided under separate cover.

The on-site and off-site portions of the groundwater remedy have also been implemented and O&M is continuing. On-site groundwater extraction started in September 1986 at extraction wells DM-301 and DM-302 shortly after the initial site investigation (1983). Extracted water was treated at the Pilot Treatment Plant (or "PTP") located in the Courtyard area. On-site extraction wells DM-303 and DM-304 were added to the PTP system in April 1990. The off-site system, consisting of extraction wells DM-305 through DM-313 was brought on-line in July 1992. The Integrated Groundwater Treatment Plant (or "IGWTP"), a centralized treatment plant located on the 52<sup>nd</sup> Street facility, treats all extracted groundwater from the on-site and off-site well fields prior to use on the plant site. The on-site extraction wells were tied into the IGWTP when it was brought on-line and the PTP is no longer used to treat extracted groundwater.

In addition to the OU-1 groundwater remedy, Motorola operates a voluntary groundwater remedy in the SWPL area. Water is extracted from a series of on-site wells (DM-201, DM-201OB1, DM-702 through DM-707, DM-713 through DM-714, and DM-724) and is treated at the IGWTP.

2. *What is your impression of the implemented remedy (OU1) at the Site?*

I believe that the OU1 remedy has been very successful, both in terms of the early implementation of the groundwater remedy, as discussed above, and in the results seen to date. The most important factor demonstrating the effectiveness of the OU1 remedy is the decreasing concentrations of VOCs in groundwater that have been observed within and downgradient of the OU1 area. These results are discussed in annual reports prepared on behalf of Motorola, most recently the "Operable Unit No. 1 Effectiveness Report; 1999 Operations at 52<sup>nd</sup> Street Superfund Site" Clear Creek Associates, March 2000.

As discussed in response to question number 1, above, I believe that the soils portion of the remedy has been successfully completed at both the Courtyard area and Southwest Parking Lot area of the 52<sup>nd</sup> Street facility.

3. *What is your responsibility at the site (i.e., Management, O&M, Monitoring)?*

Management. I am the Manager of Remediation and Due Diligence for Motorola SPS and have overall responsibility for Motorola at the Site.

4. *Please describe the O&M and Monitoring responsibilities of other staff and contractors directly under your supervision.*

There are a number of contractors that provide support, currently or in the past, at OU1. They are identified by subject area below:

- Courtyard Area SVE: Dames & Moore; Hydro Geo Chem
- SWPL Area SVE: Dames & Moore; Kleinfelder; Golder (the project individuals from Kleinfelder & Golder were worked for Harding Lawson Associates at the initiation of the project)
- OU1 O&M: Guitierrez-Palmenberg Inc. (GPI)
- OU1 Monitoring: URS (formerly Dames & Moore); Clear Creek Associates
- OU1 Effectiveness Evaluations: Clear Creek Associates

5. *Describe any significant changes (or planned changes) to OU1 that are not addressed in the appropriate O&M manuals or plans.*

There are no significant changes currently planned. Those changes that have been made are reflected in the O&M manual and the groundwater monitoring plan.

6. *Describe any O&M problems or difficulties, within the last 5-Years, that may have affected the protectiveness or effectiveness of the remedy to meet remedial objectives.*

There have been no O&M problems or difficulties within the last 5-years that have affected the protectiveness or the effectiveness of the remedy. Generally, only routine O&M procedures and small item maintenance / equipment replacement have occurred over the last 5 years. Pumps have been lowered and pumping rates reduced in some wells in response to decreasing water levels over time. None of the changes to extraction well rates have adversely impacted the ability of the OU-1 system to maintain capture.

7. *Describe any activities implemented since start-up of OU1 to optimize O&M.*

Changes that have been made since initial start-up of the IGWTP include:

- Modifying the air recirculation system from 100% recycle to providing a 1% bleed-off to ensure there is no build-up of entrained VOCs in the air stream. (Completed in 1993.)
- The settings of extraction wells pumps have periodically been lowered and flow rates reduced as required to deal with lowering water tables.
- The vapor phase carbon bed regeneration cycle was changed from daily to every 72-96 hours as influent air concentrations declined.
- Groundwater monitoring well purge water is now treated at the IGWTP.

8. *Describe any activities implemented since start-up of OU1 to optimize on-site monitoring activities.*

The groundwater monitoring schedule was modified twice since start-up, in 1995 and 1998. These changes are documented in the reports "Proposed Motorola 52<sup>nd</sup> Street 1995 Groundwater Monitoring Plan for Motorola", Dames & Moore, October 14, 1994 and "Groundwater Monitoring Plan, 52<sup>nd</sup> Street Superfund Site, Operable Unit No. 1 Area, for Motorola Inc.", Dames & Moore, January 1998.

9. *Are the annual O&M costs for the past 5-years consistent with the original estimated cost? If significantly higher or lower, please describe why the annual cost varied from the estimated cost. (Note: Obtain written cost data if available.)*

The annual O&M costs over the last 5 years are tabulated below. The costs are for treatment plant operations and do not include other response costs that were incurred for OU1 (e.g. , groundwater monitoring, reporting, access). The decrease in annual costs in 1999 is a result of reduced staffing and the modified vapor phase carbon regeneration schedule that were implemented at that time. Actual O&M costs are generally consistent with the original estimate of \$700K contained in the June 1987 Feasibility Study.

| Year | Costs (K) |
|------|-----------|
| 1996 | \$699     |
| 1997 | \$897     |
| 1998 | \$744     |
| 1999 | \$442     |
| 2000 | \$265     |

10. *Do you have any comments, suggestions, or recommendations to improve the site's operations, maintenance, or monitoring activities?*

I recommend modifying the schedule for generating the comprehensive "Effectiveness Reports" from the currently required annual basis to once every 5 years. The OU1 groundwater remedy has been operating for over 8 continuous years with no identified problems and is classified by EPA as in the "O & M" mode of operation. The detailed annual effectiveness reports are largely repetitive from year to year and the most relevant information – water levels demonstrating capture and water quality conditions at the site – are duplicative of information contained in the routine groundwater monitoring reports. The monitoring reports could be modified to include additional information tracked by ADEQ, such as the volume of water treated and the pounds of VOCs removed. This would eliminate the need for an annual effectiveness report and such a report could then be produced every five years concurrent with the CERCLA five-year review.

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): KRIS KOMMALAN, JOHN KIM  
DATE: 2/14/01; INTERVIEW METHOD: MEETING

TOPIC: **SITE BACKGROUND INFORMATION, NEIGHBORS & CAB REPRESENTATIVE**

INTERVIEWEE: DR. DAVID HUNTLEY → SAN DIEGO STATE UNIV.  
REPRESENTING: ROBERT FRANK; TITLE: CH<sub>2</sub>M HILL  
HONEYWELL (KEITH BOWERS) HUNTLEY: 619 594-5483  
ADDRESS: \_\_\_\_\_; PHONE: FRANK: 480 966-8188

1. What is/was your understanding of the overall remedy (OU1) at the Site?  
MR. FRANK - VERY GOOD UNDERSTANDING OF OUI  
DR. HUNTLEY - LIMITED UNDERSTANDING OF OUI,  
\_\_\_\_\_  
\_\_\_\_\_
2. What is your impression of the completed remedy (OU1) at the Site?  
BOTH INTERVIEWEES AGREED THAT NOT ENOUGH INFORMATION  
HAS BEEN PROVIDED TO DEMONSTRATE THAT OUI IS  
CONTAINING THE PLUME WEST OF THE OLD GROSS CUT  
CANAL.  
\_\_\_\_\_  
\_\_\_\_\_
3. Please describe your involvement or participation at the Site (if any).  
DR. HUNTLEY HAS LIMITED INVOLVEMENT AT THE SITE AND WAS  
RETAINED BY HONEYWELL TO EVALUATE THE EFFECTIVENESS OF  
THE EXTRACTION WELLS. MR. FRANK IS WORK ON OUI2 FOR  
HONEYWELL, AND HAS BEEN INVOLVED IN REVIEWING REPORTS  
SUBMITTED TO ADEC ON OUI.  
\_\_\_\_\_  
\_\_\_\_\_
4. Do you feel that you were kept well informed about all phases of the project?  
DR. HUNTLEY - NO COMMENT  
MR. FRANK - YES.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. What effects have the operation of OU1 had on you (or the surrounding community)?

EFFECTS OF OU1 PERFORMANCE POTENTIALLY IMPACTS THE FUTURE  
OPERATION OF OUR (ALLOCATION ISSUES).

6. During the past 5-years that OU1 has been in operation , were you aware (or informed) of any events, incidents, problems or activities that affected you (or the surrounding community)?

No

7. Are you aware of any other community concerns regarding the site, the operation of OU1, and administration that have not been resolved?

No

8. Do you have any comments, suggestions, or recommendations regarding the effectiveness of OU1 in protecting human health or the environment?

A PRESENTATION w/ HANDOUTS (ATTACHED) ON HONEYWELL'S  
CONCERNS ON THE EFFECTIVENESS OF OU1.

9. Can you recommend any additional community members that we should talk to?

No

## Outline of Discussion, Effectiveness of OU-1

1. OU-1 is clearly intercepting a significant fraction of the mass of contaminant flowing as dissolved phase from the Motorola 52<sup>nd</sup> Street facility. As a result concentrations in many downgradient wells are declining.
2. Decreasing concentration of solutes in downgradient wells does not demonstrate 100% containment of the Motorola 52<sup>nd</sup> Street contaminant plume. Groundwater pumping downgradient of the source, such as from DM-305 through DM-313, will produce two results:
  - A. Interception of some fraction of the mass of solutes previously moving offsite.
  - B. A decrease in groundwater levels in the area of pumping, which results in drawing clean water from peripheral areas into the solute plume.

Both of these actions will result in a decrease in solute concentrations downgradient of the pumping wells, regardless of whether there is containment and 100% interception of the solute plume.

3. Analyses provided by consultants to Motorola have not demonstrated 100% containment of the dissolved phase plume at or downgradient of the Motorola 52<sup>nd</sup> Street facility. Those consultants have used the following approaches (with associated criticism):
  - A. Contours of drawdown.
    - i. Drawdown contours do not demonstrate containment, as a contour map of drawdown will always show a series of closed contours, no matter how little one pumps. For pumping to produce containment, the drawdown has to overcome the natural hydraulic gradient.
    - ii. Production wells should not be included in maps of drawdown, because drawdown in a production well is greater than drawdown in the formation adjacent to the production well due to turbulent well loss in the production well. Further, because drawdown decreases exponentially away from a production well, use of production well drawdown in the absence of monitoring wells always over-predicts the effect of pumping.
  - B. Groundwater Elevation Contour Maps.
    - i. Water level contour maps presented include water levels from production wells. This exaggerates the effect of the pumping, as discussed above.
    - ii. Groundwater contour maps that do not include production well data do not demonstrate interception of the dissolved phase

plume. This does not prove that interception is incomplete, it may mean that the monitoring well network is not sufficiently dense to demonstrate interception.

C. Numerical Model

- i. The numerical model uses a hydraulic conductivity of 20 ft/day and a transmissivity of about 1000 ft<sup>2</sup>/day for the alluvium the area around OU-1. Capture is very sensitive to the assumption of hydraulic conductivity and transmissivity. Aquifer tests both onsite and offsite, except for those near the southern portion of the Motorola 52<sup>nd</sup> Street facility, indicate hydraulic conductivities on the order of 40 ft/day and transmissivities in excess of 2000 ft<sup>2</sup>/day. Underestimation of hydraulic conductivity and/or transmissivity will result in an overestimation of the effectiveness of capture, given a fixed pumping rate.
- ii. The model grid spacing is too large to assess capture by wells placed 300 ft apart. Grid spacing should be no larger than 25 ft to accurately assess the effect of pumping from wells with 300 ft spacing.
- iii. The model treats the underlying fractured rock system as an equivalent porous medium, with fracture permeability uniformly distributed both areally and vertically. This is not a valid representation of the fracture system at the site.

4. Analytic Solutions indicate that well spacings are too large and/or pumping rates are too low for complete interception of the contaminant plume in the alluvium.

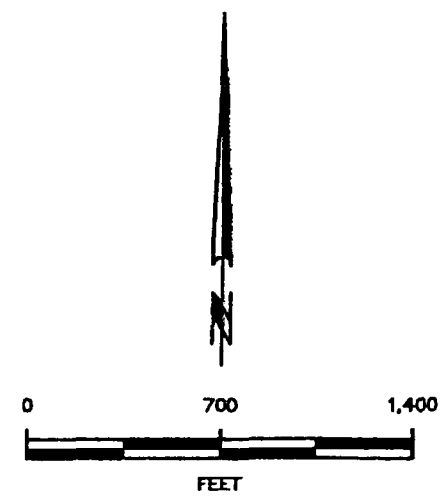
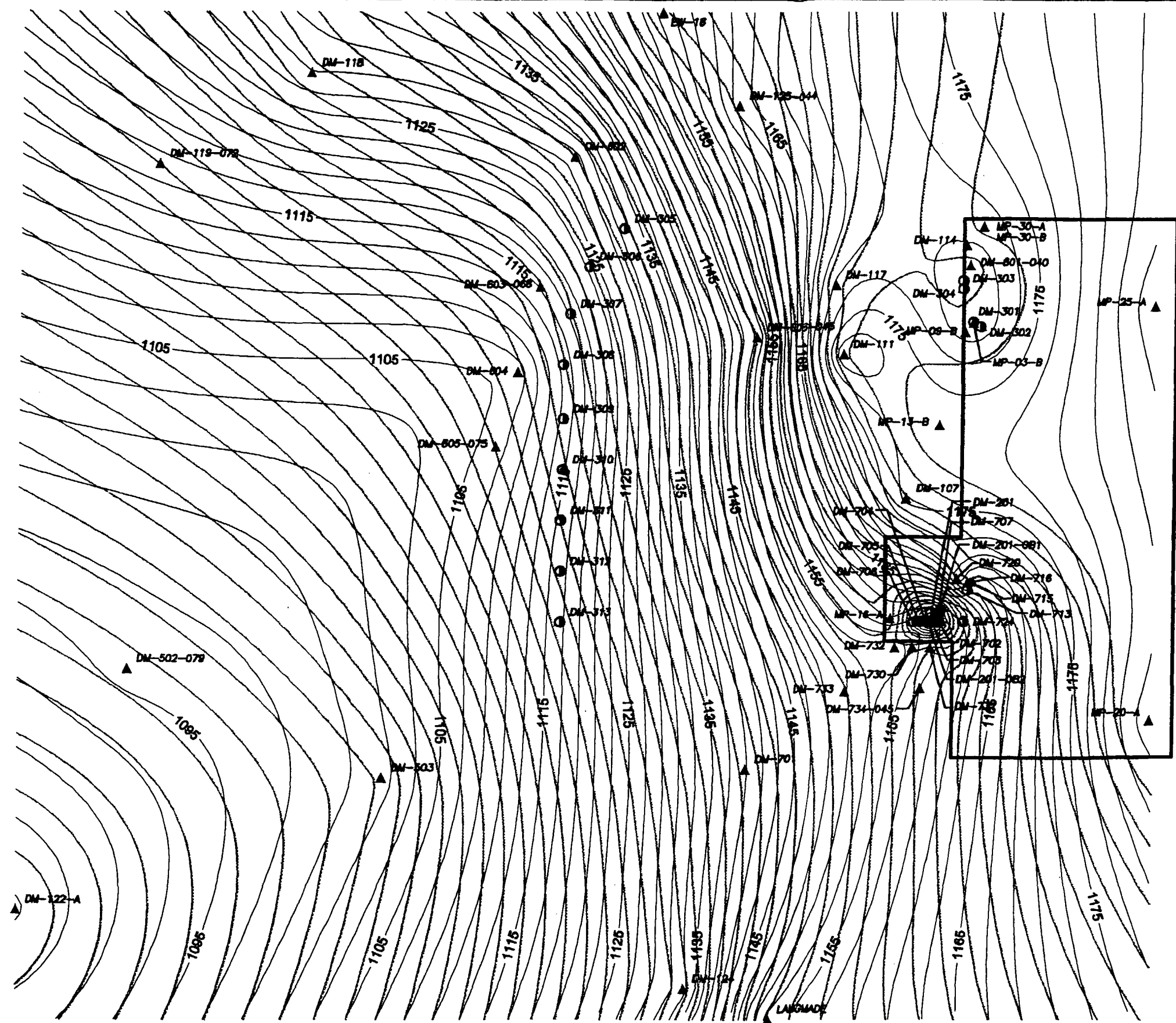
- A. Javendal and Tsang (1986) solution indicate that well spacing,  $d$ , is given by  $d = 1.2Q / i T$ , where  $Q$  is the well pumping rate,  $T$  is aquifer transmissivity, and  $i$  is gradient. For  $i = 0.012$ ,  $Q = 60$  gpm, and  $T = 3300$  ft<sup>2</sup>/day, the recommended well spacing is 110 ft. This well spacing increases to 180 ft for  $T = 2000$  ft<sup>2</sup>/day. The actual spacing of 300 ft requires a  $T = 1200$  ft<sup>2</sup>/day.
- B. Another way of looking at above is the total pumping rate for OU-1 would have to be a minimum of 2.2 times the quantity  $Lti$ , where  $L$  is the width of the contaminated zone, using the least conservative ratio in the literature. This would require pumping rates for OU-1 of 600 to 970 gpm for transmissivities of 2000 to 3200 ft<sup>2</sup>/day. These are much higher than actual pumping rates.
- C. Calculation of a theoretical water table configuration using unconfined aquifer equation and  $K = 40$  ft/day shows incomplete capture. Only use of a  $K \leq 20$  ft/day shows complete capture.

5. Observations in the fractured bedrock at DM-603 and DM-606 indicate OU-1 is locally ineffective at intercepting contaminant.

- A. Highest concentrations in bedrock intervals not decreasing or minimally decreasing.
- B. Upward vertical gradient not established.

### **Recommendations**

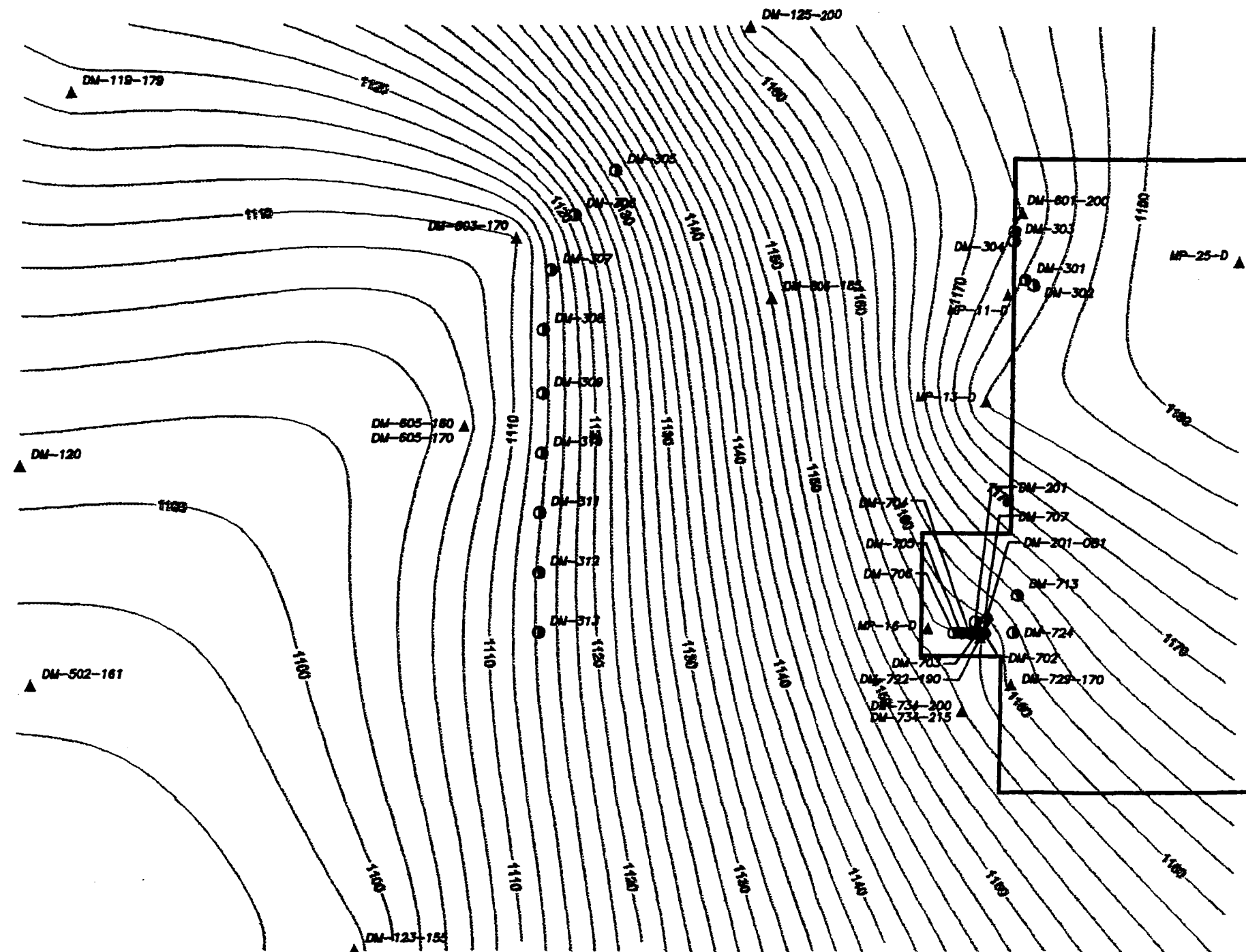
1. Additional production wells be added to OU-1 to decrease spacing to those shown to be necessary by analytic solutions.
2. Additional production wells be placed in high permeability, high concentration zones in fractured bedrock. —
3. Additional monitoring wells be placed between extraction wells and downgradient of extraction wells to demonstrate hydraulic control of contaminant plume.
4. Water levels from production wells should not be used to contour groundwater elevations within and around OU-1.
5. The current model should not be used to assess the effectiveness of OU-1 until (a) grid spacings are decreased, (b) the hydraulic conductivity of the alluvium more closely reflect the measured values, and (c) the bedrock be treated more realistically.



**FIGURE**  
**WATER LEVEL CONTOUR MAP**  
**NEAR OU-1 ALLUVIAL WELLS**

**EXPLANATION**

|          |  |
|----------|--|
| DM-706 ● | PRODUCTION WELLS   |
| DM-701 ▲ | MONITOR WELLS  |
| _____    | 1992 BASELINE <i>Before OUI</i><br>WATER LEVEL ELEVATION CONTOUR |
| —1150—   | FOURTH QUARTER 1999<br>WATER LEVEL ELEVATION CONTOUR             |



**FIGURE**  
**WATER LEVEL CONTOUR MAP**  
**BEDROCK AT 1000 FEET**  
**ELEVATION, 4th QUARTER 1999**

**EXPLANATION**

- DM-706 ● PRODUCTION WELLS
- DM-734-215 ▲ MONITOR WELLS
- 1150— WATER LEVEL ELEVATION CONTOUR

## REPORTED OU-1 AREA AQUIFER TEST RESULTS

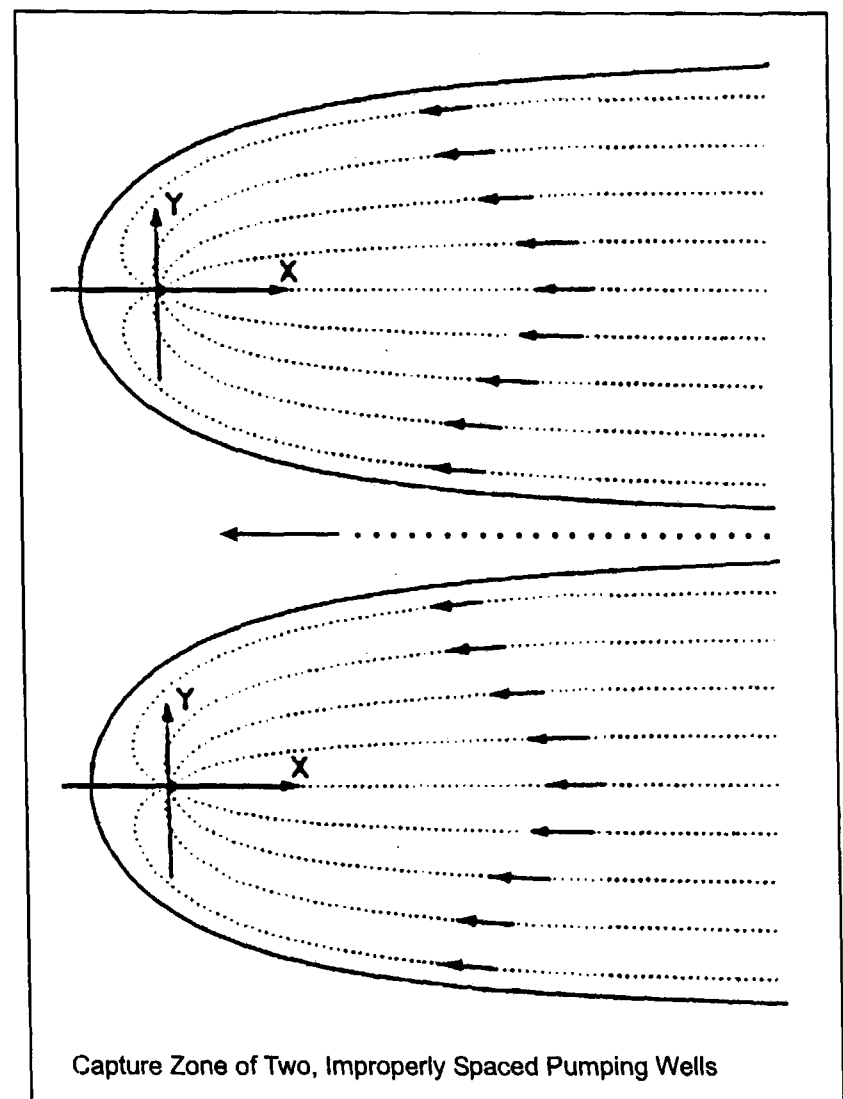
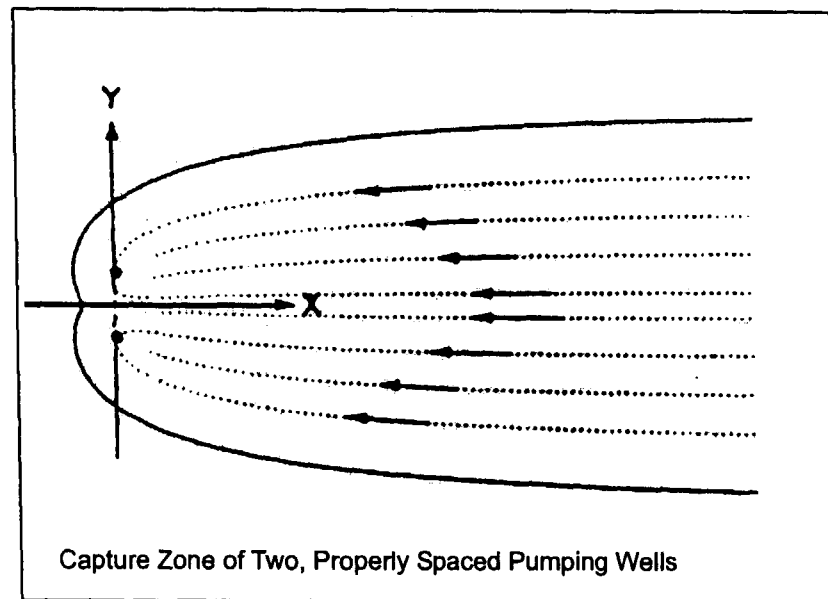
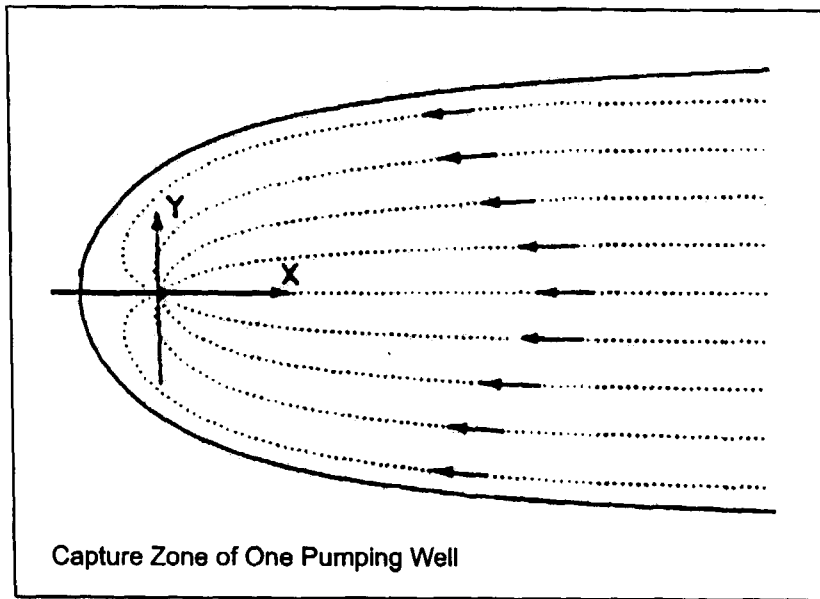
### Offsite Wellfield Area

| Well Designation | Aquifer Test Description                                   | Transmissivity (ft <sup>2</sup> /day) | Aquifer Thickness (ft) | Hydraulic Conductivity (ft/day) | Source of Data      |
|------------------|--|---------------------------------------|------------------------|---------------------------------|---------------------|
| DM-202           | Multi-Well Aquifer Test (DM-202, DM-202-OB1, DM-202-OB2)   | 2800                                  | 55                     | 51                              | Dames & Moore, 1987 |
| DM-305           | Recovery of DM-305 from pumping from DM-305 through DM-313 | 3280                                  | 76                     | 43                              | Huntley, 2000       |

### Onsite Wellfield Area

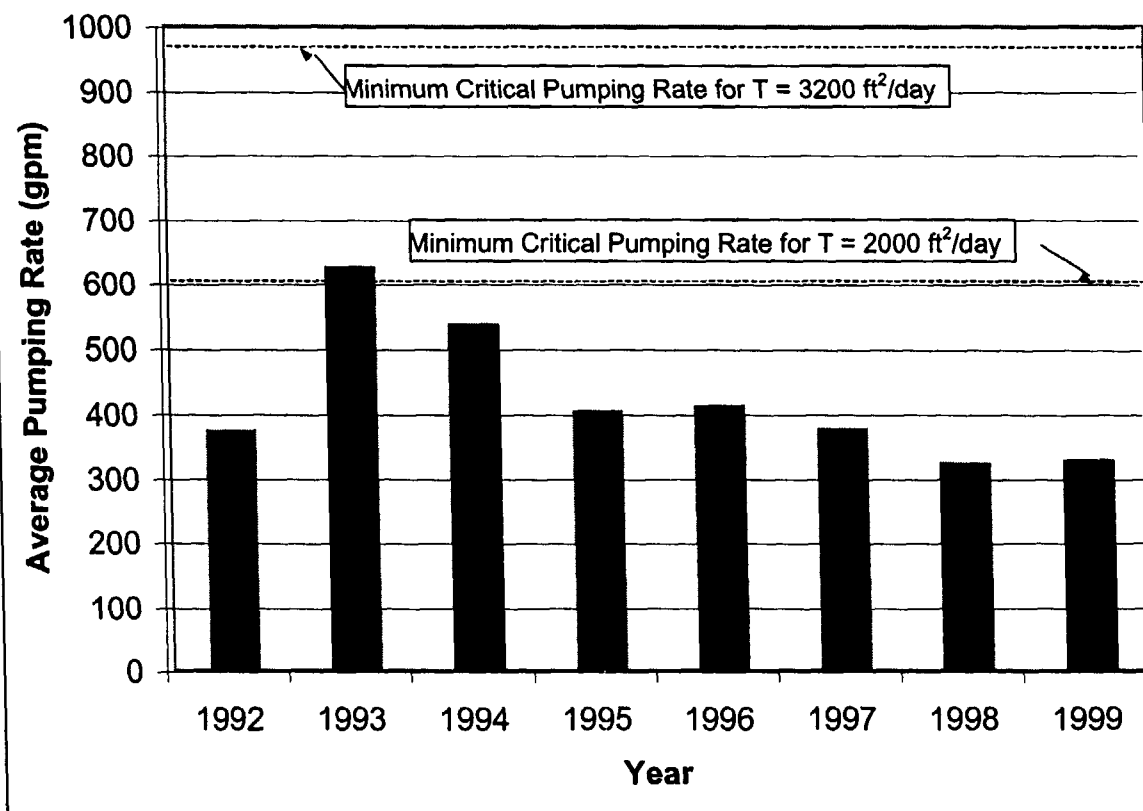
| Well Designation | Aquifer Test Description | Transmissivity (ft <sup>2</sup> /day) | Aquifer Thickness (ft) | Hydraulic Conductivity (ft/day) | Source of Data                  |
|------------------|--------------------------|---------------------------------------|------------------------|---------------------------------|---------------------------------|
| DM-301           | Multi-Well Aquifer Test  | 2100                                  | 48                     | 44                              | Motorola OU2 100% Design Report |
| DM-302           | Multi-Well Aquifer Test  | 1980                                  | 46                     | 43                              | Motorola OU2 100% Design Report |
| SW-1             | Multi-Well Aquifer Test  | 1370                                  | 38                     | 36                              | Motorola OU2 100% Design Report |
| DM-201           | Multi-Well Aquifer Test  | 42                                    | 6                      | 7                               | Motorola OU2 100% Design Report |
| DM-113           | Single-Well Aquifer Test | 3500                                  | 41                     | 85                              | Motorola OU2 100% Design Report |
| DM-114           | Single-Well Aquifer Test | 884                                   | 34                     | 26                              | Motorola OU2 100% Design Report |
| DM-107           | Single-Well Aquifer Test | 180                                   | 15                     | 12                              | Motorola OU2 100% Design Report |
| DM-115           | Single-Well Aquifer Test | 651                                   | 21                     | 31                              | Motorola OU2 100% Design Report |

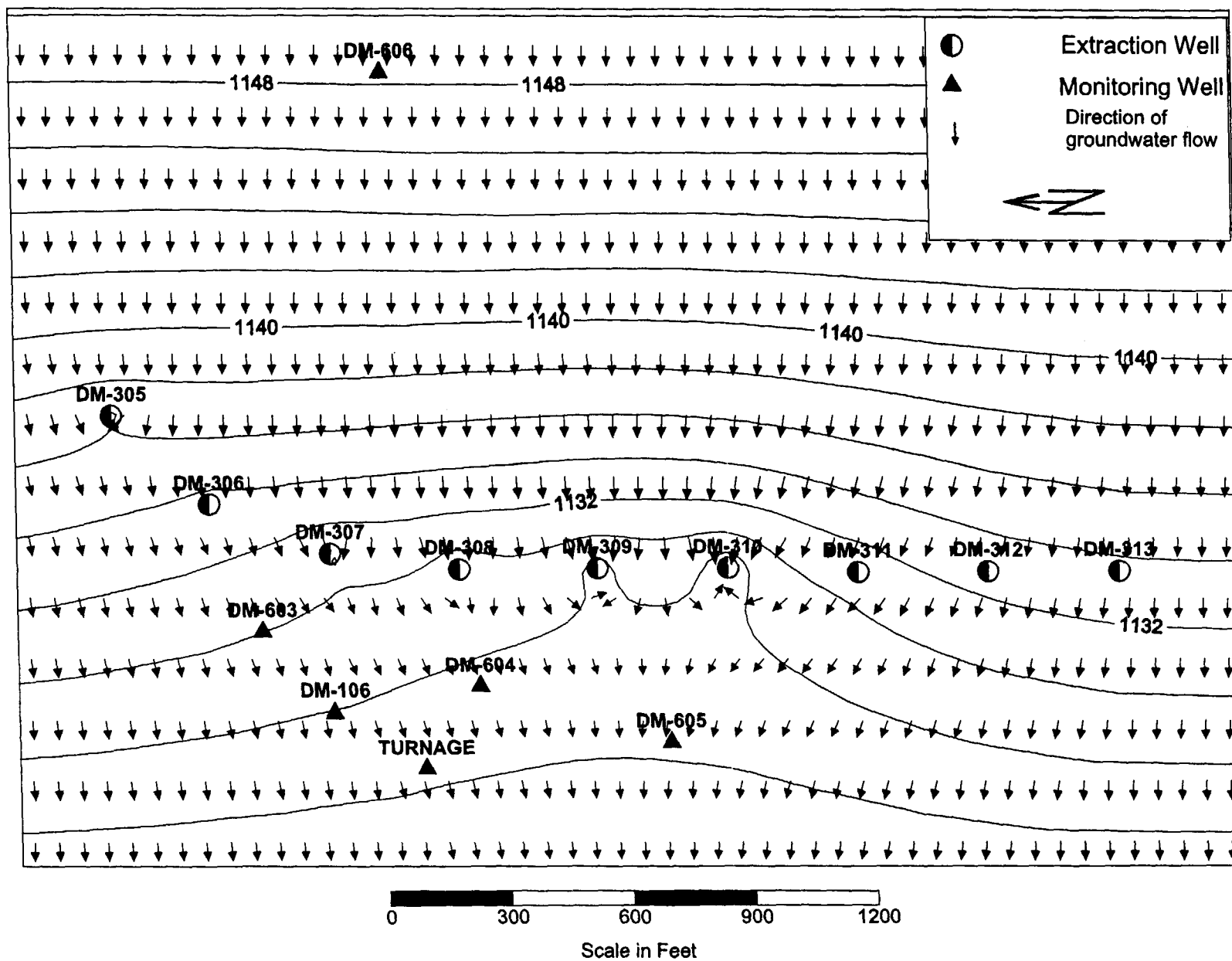




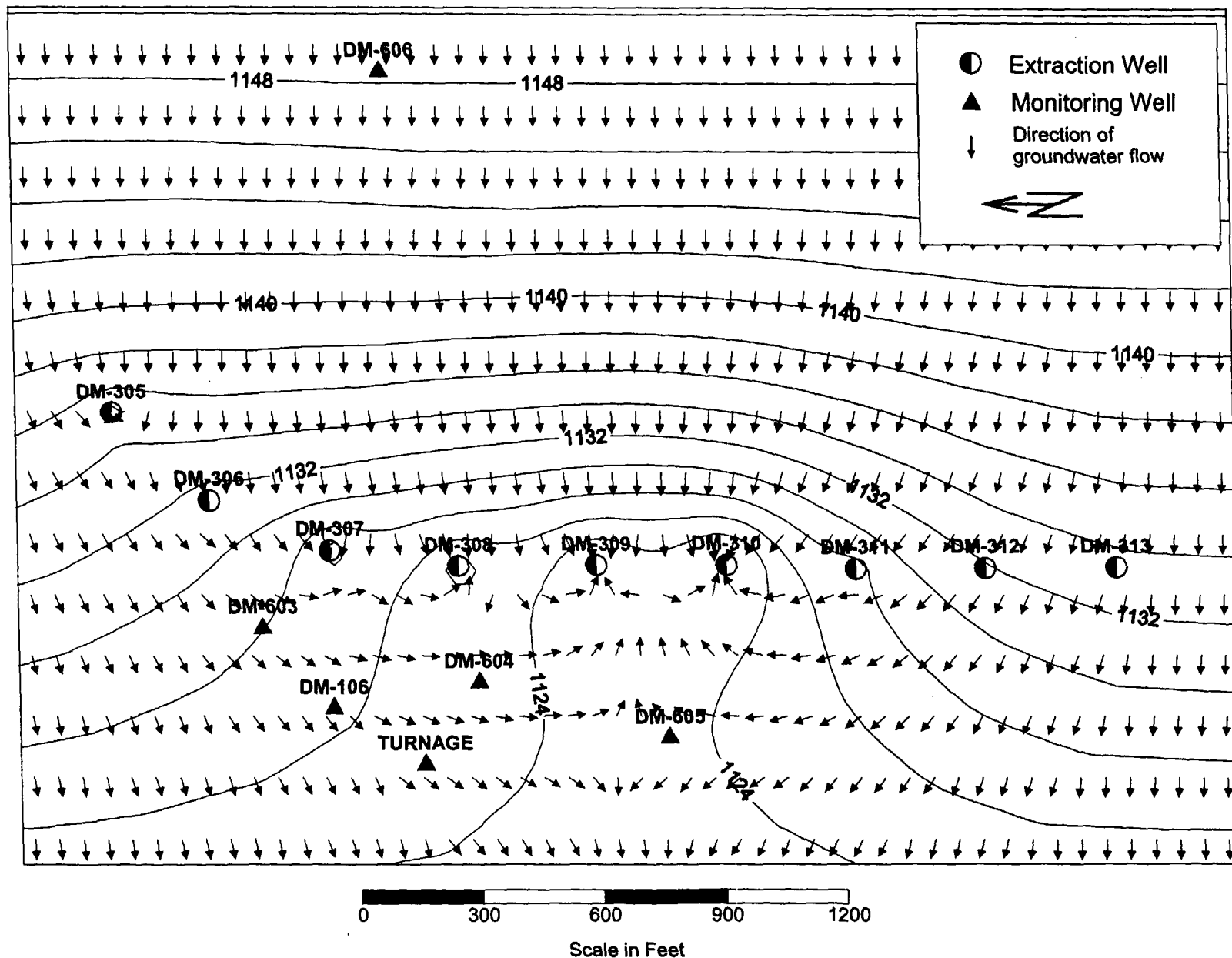
# **CAPTURE ZONES FROM PUMPING WELLS**

### Production Rate, DM-305 through DM-313

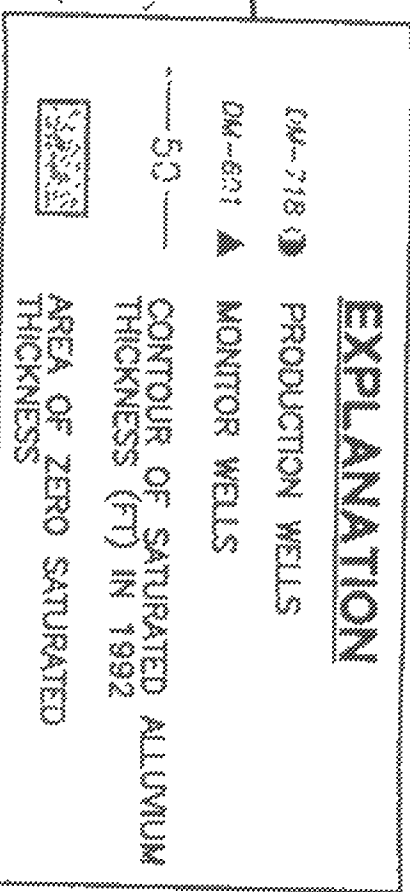


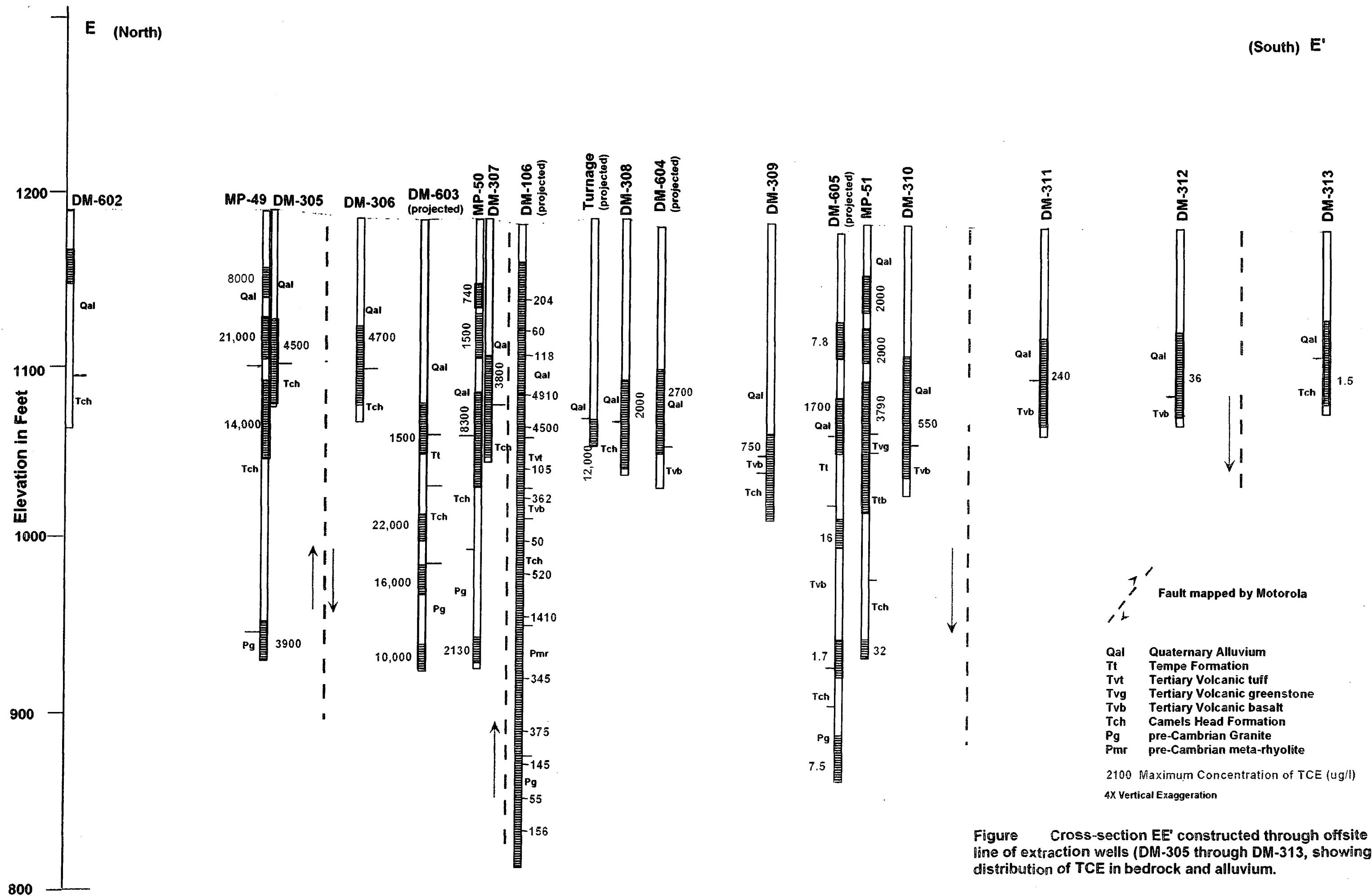


Groundwater flow directions and water level contours calculated using the analytic, steady-state Thiem Equation for an unconfined aquifer near the line of extraction wells using a hydraulic conductivity of 40 ft/day.



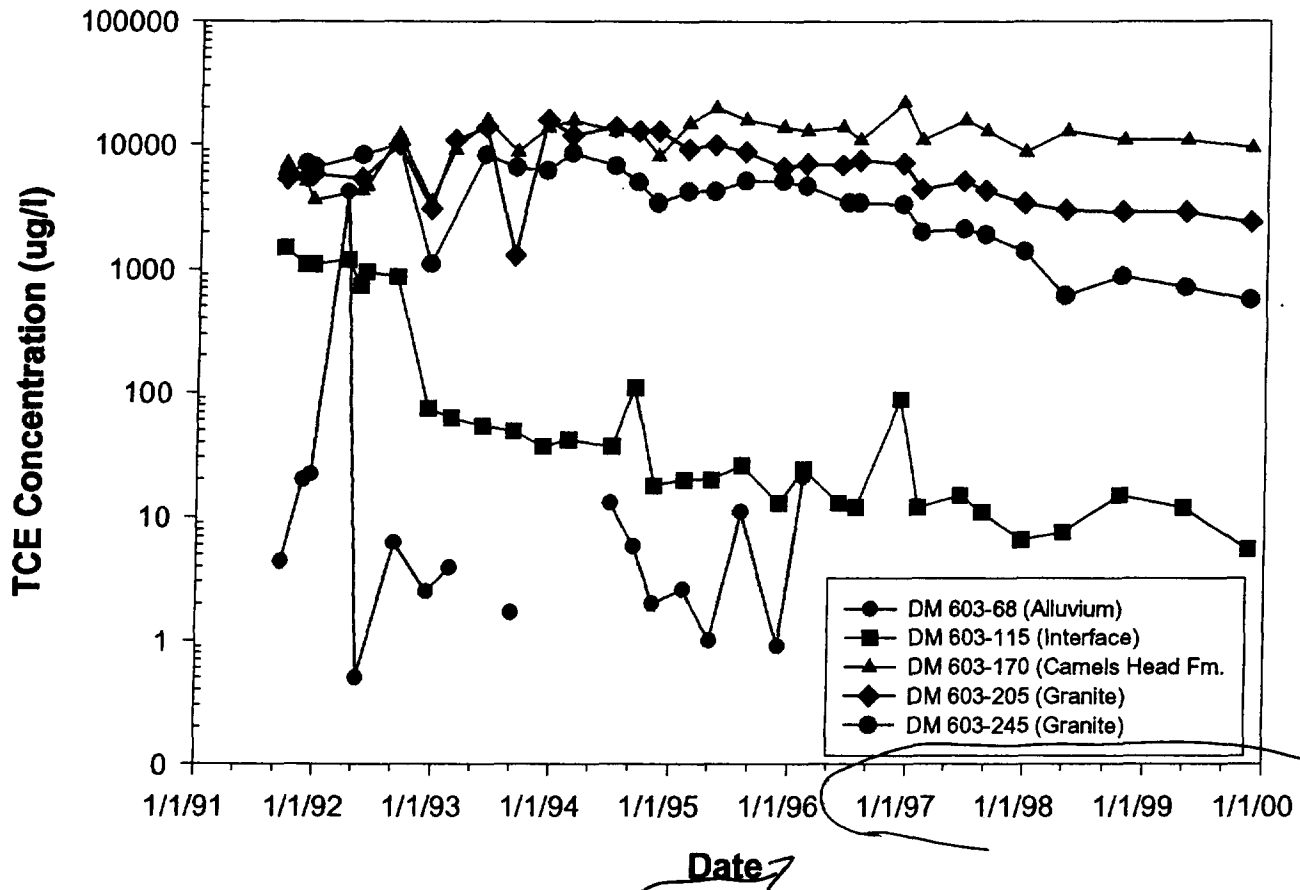
Groundwater flow directions and water level contours calculated using the analytic, steady-state Thiem Equation for an unconfined aquifer near the line of extraction wells using a hydraulic conductivity of 20 ft/day.



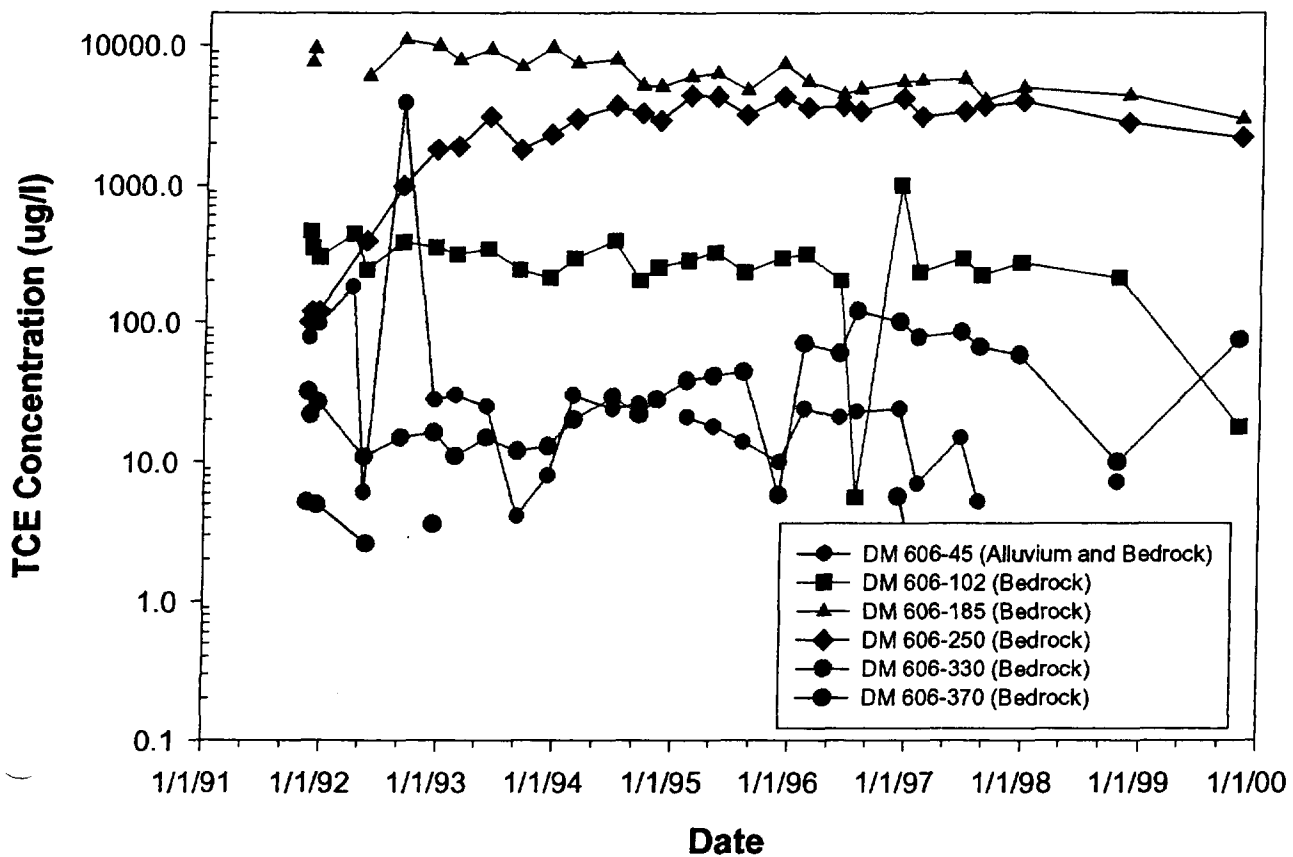


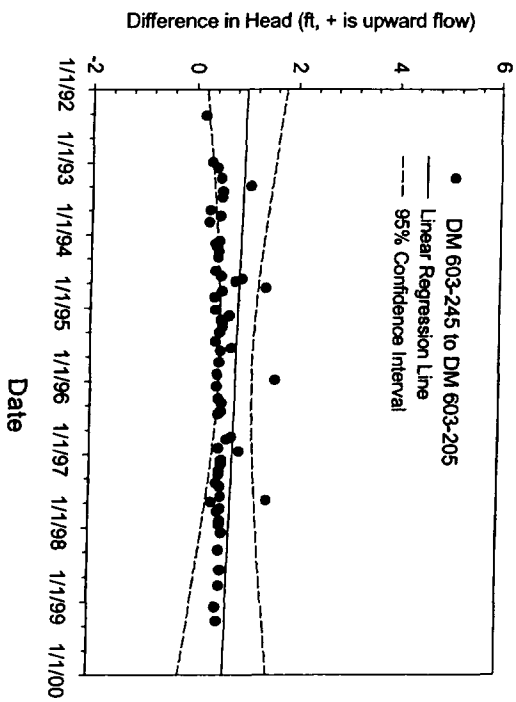
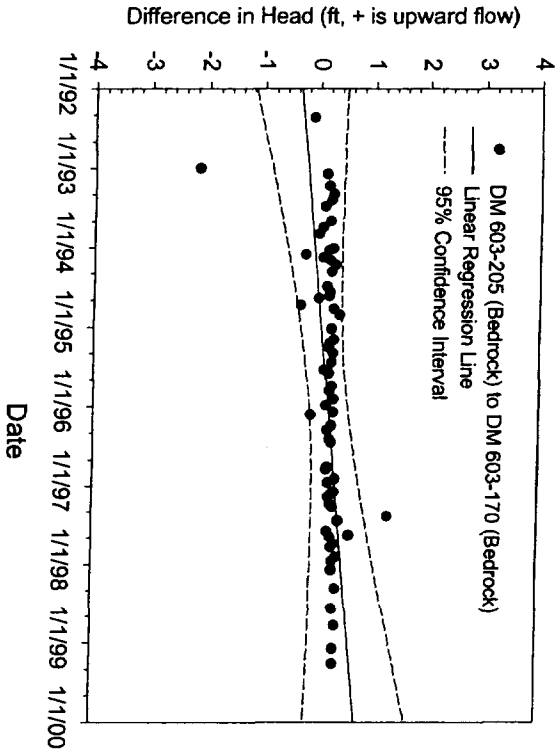
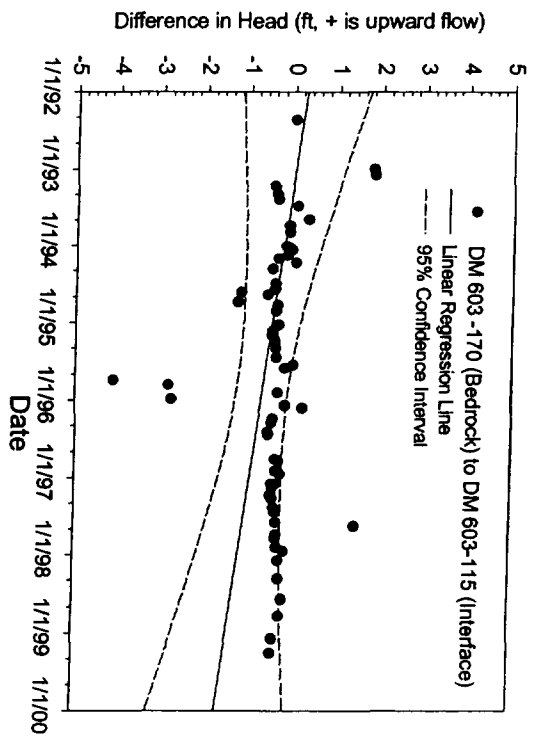
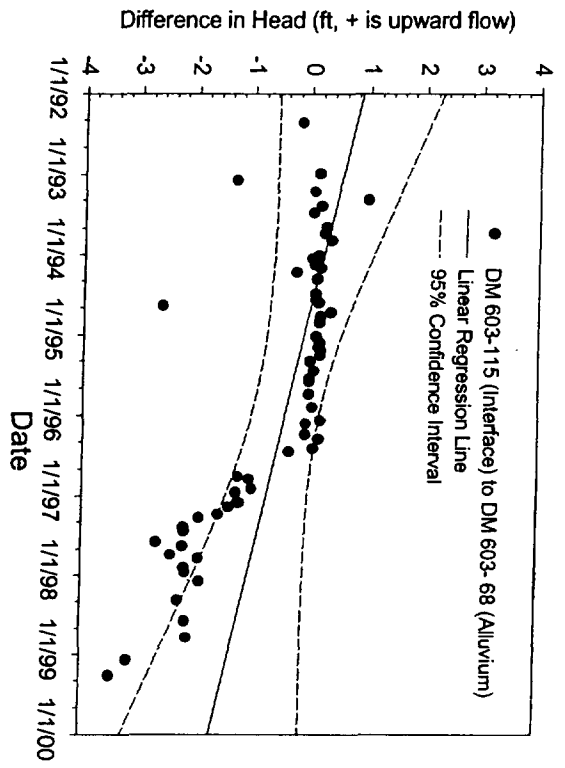
**Figure** Cross-section EE' constructed through offsite line of extraction wells (DM-305 through DM-313, showing distribution of TCE in bedrock and alluvium.

# DM 603 TCE Concentrations

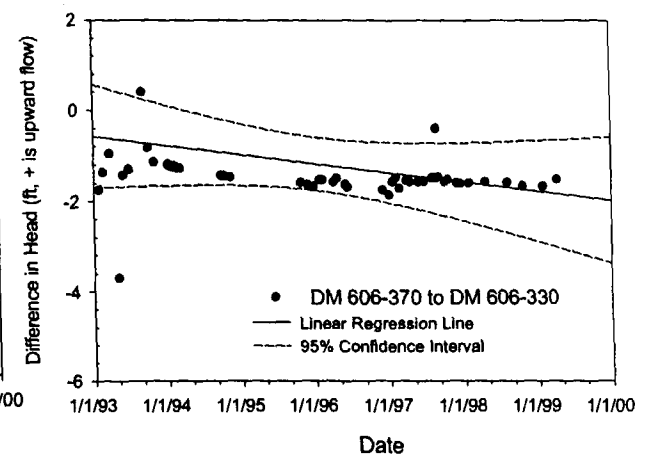
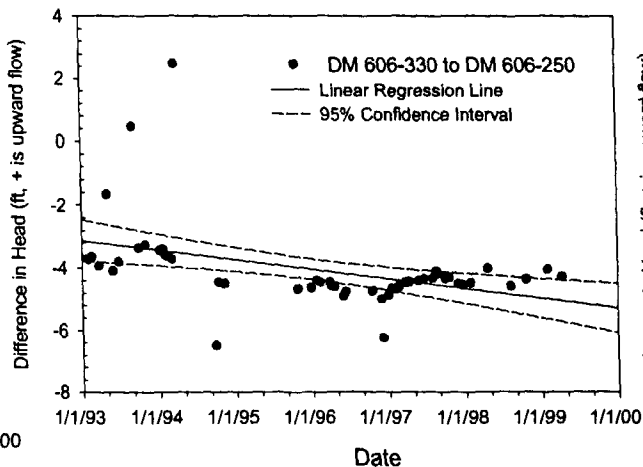
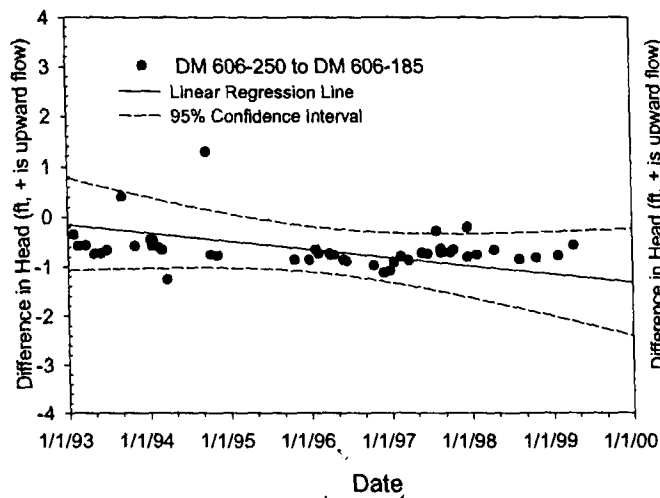
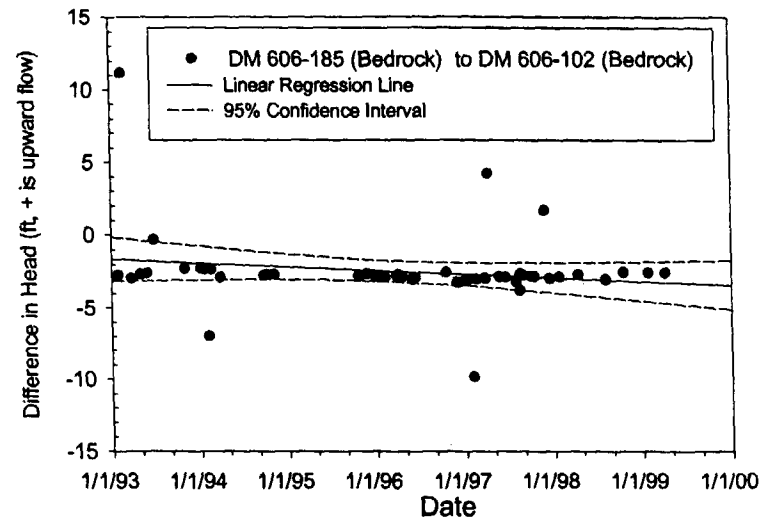
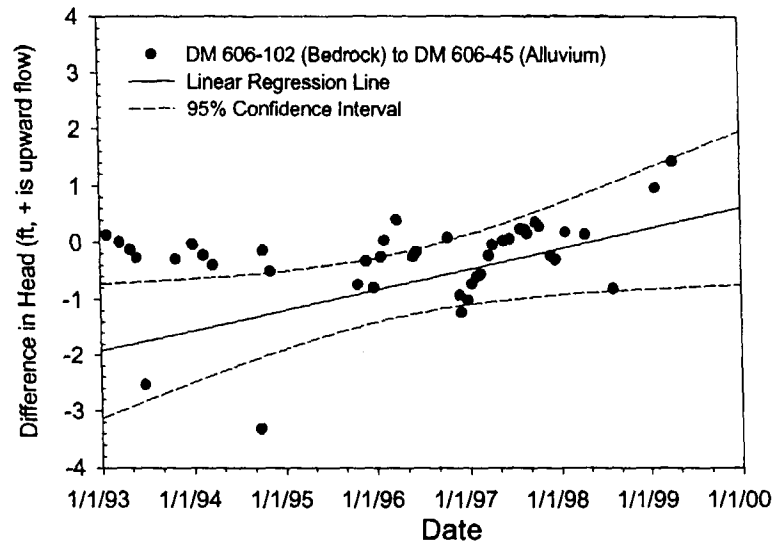


# DM 606 TCE Concentrations

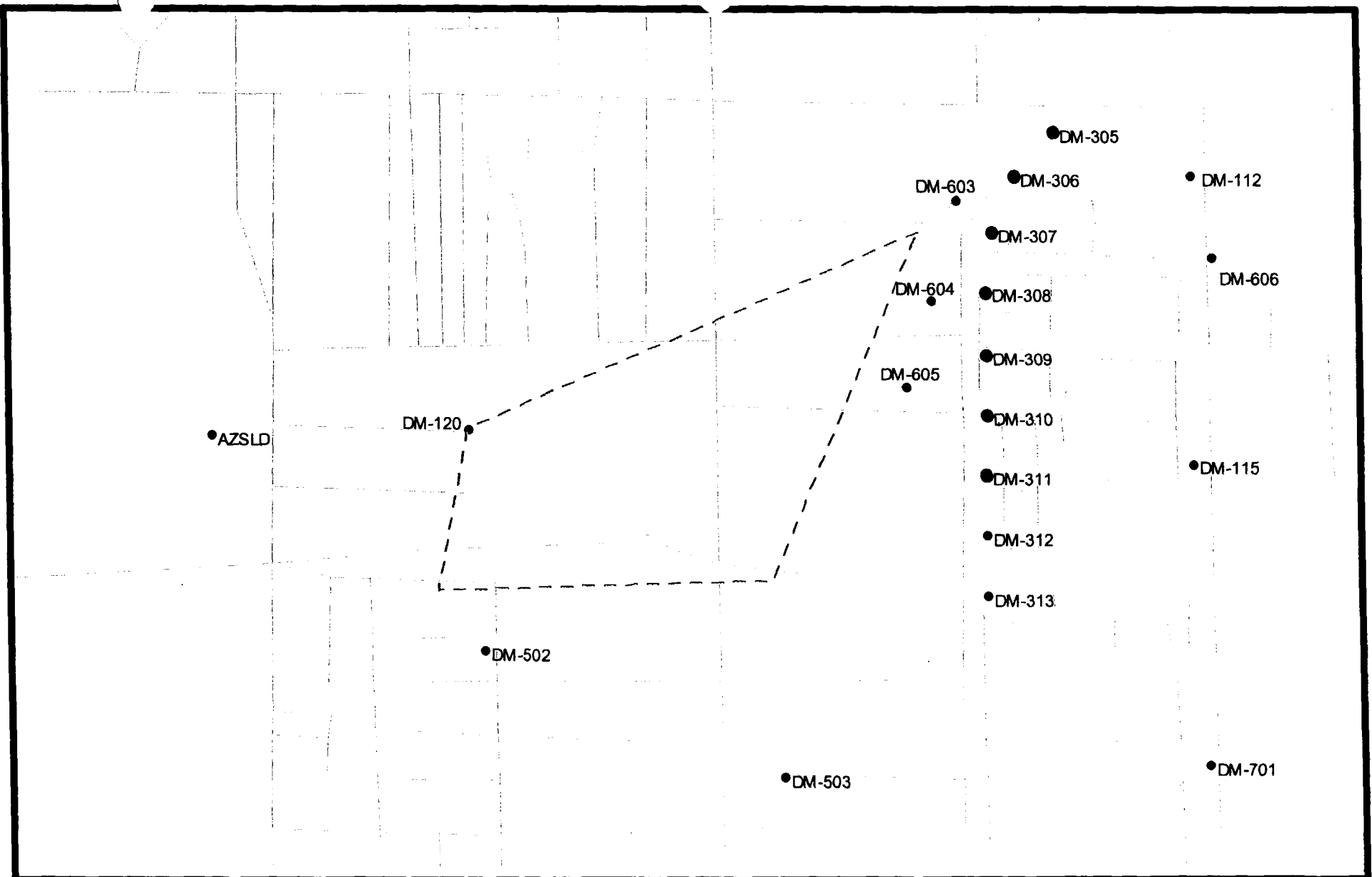




Vertical head differences in well DM-603. Positive differences represent upward vertical gradients.



Vertical head differences in well DM-606. Positive differences represent upward vertical gradients.



- OU1 Extraction Wells
- OU1 Area Monitoring Wells



700 0 700 Feet

OU1 Area Wells

**Honeywell**

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): KRS KANNALAN, JOHN KIM.  
DATE: 3/20/01; INTERVIEW METHOD: MEETING

TOPIC: **SITE BACKGROUND INFORMATION, NEIGHBORS & CAB REPRESENTATIVE**

INTERVIEWEE: BOB ATKINSON; TITLE: DIRECTOR H&S  
REPRESENTING: ON SEMICONDUCTORS  
ADDRESS: \_\_\_\_\_; PHONE: 602 244-6858

1. What is/was your understanding of the overall remedy (OU1) at the Site?  
WATER IS PUMPED FROM THE GROUND FOR TCE TREATMENT AND  
USED ON-SITE.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. What is your impression of the completed remedy (OU1) at the Site?  
PROJECT APPEARS TO BE MANAGED APPROPRIATELY BY  
MOTOROLA.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. Please describe your involvement or participation at the Site (if any).  
MANAGEMENT, OF RECOVERED TCE FOR OFF-SITE  
RECLAMATION & DISPOSAL.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. Do you feel that you were kept well informed about all phases of the project?  
AS APPROPRIATE.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. What effects have the operation of OU1 had on you (or the surrounding community)?  
NONE.
6. During the past 5-years that OU1 has been in operation , were you aware (or informed) of any events, incidents, problems or activities that affected you (or the surrounding community)?  
No
7. Are you aware of any other community concerns regarding the site, the operation of OU1, and administration that have not been resolved?  
No
8. Do you have any comments, suggestions, or recommendations regarding the effectiveness of OU1 in protecting human health or the environment?  
No
9. Can you recommend any additional community members that we should talk to?  
No.

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): KRIS KOMMALAN (ADEQ) JOHN KIM (HESE)  
DATE: 03/20/01; INTERVIEW METHOD: MEETING.

TOPIC: **SITE OPERATIONS, MAINTENANCE & MONITORING: SITE  
MANAGER, O&M MANAGER, SITE STAFF, & CONSULTANTS**

INTERVIEWEE: LARRY RODRIGUEZ; TITLE: OPERATIONS MANAGER  
REPRESENTING: GPI  
ADDRESS: \_\_\_\_\_; PHONE: 602 234-0896

1. What is/was your understanding of the overall remedy (OU1) at the Site?  
REMOVAL OF GLW CONTAMINANTS OF CHEMICAL LEAK CAUSED  
BY MOTOROLA IN 1983.
2. What is your impression of the implemented remedy (OU1) at the Site?  
FROM LOOKS OF EXTRACTION WELLS' PERFORMANCE, IT  
APPEARS THAT IT IS ACHIEVING ITS INTENDED PURPOSE.
3. What is your responsibility at the site (i.e., Management, O&M, Monitoring)?  
SUPERVISOR OF O&M ACTIVITIES FOR IGWTP.
4. Please describe the O&M and Monitoring responsibilities of other staff and contractors directly under your supervision.  
LEO WILSON - TECHNICIAN RESPONSIBLE FOR DAY TO DAY  
INSPECTION & MAINTENANCE ACTIVITIES OF IGWTP.  
OTHER CONTRACTORS ARE USED ON AN AS NEEDED  
BASIS.

5. Describe any significant changes (or planned changes) to OU1 that are not addressed in the appropriate O&M manuals or plans.

EXTRACTION WELL DM 313 & 312 WERE TAKEN OFF-LINE  
BECAUSE VOC CONCENTRATIONS FELL BELOW MCLS.

6. Describe any O&M problems or difficulties, within the last 5-Years, that may have affected the protectiveness or effectiveness of the remedy to meet remedial objectives.

IGWTP HAS BEEN IN OPERATION OVER 90% OF THE  
TIME. NO MAJOR PROBLEMS WERE ENCOUNTERED.

7. Describe any activities implemented since start-up of OU1 to optimize O&M..

USE OF SINGLE CONTROL VALVE INSTEAD OF MULTIPLE  
VALVE TO OPTIMIZE FLOW, MODIFIED RELAY CONTROL  
TO A PLC. THE IGWTP ALARM AND SHUT DOWN  
SYSTEM WAS PLACED INTO A PAGING NOTIFICATION  
SYSTEM, THAT REDUCED THE NEED FOR AN OPERATOR  
TO BE ON-SITE 7-8 HOUR DAYS. RESPONSE TIME  
IS APPROXIMATELY 20-30 MIN AFTER ALARM IS TRIGGERED

8. Describe any activities implemented since start-up of OU1 to optimize on-site monitoring activities.

SOME WELLS HAVE BEEN ELIMINATED FROM MONITORING.  
RE: COULD NOT SPECIFY WHICH WELLS.

9. Are the annual O&M costs for the past 5-years consistent with the original estimated cost? If significantly higher or lower, please describe why the annual cost varied from the estimated cost. (Note: Obtain written annual cost data, if available).

POWER REQUIREMENTS ARE THE SAME. HOWEVER  
LABOR HAS REDUCED DUE TO MANPOWER CUT BACKS.

10. Do you have any comments, suggestions, or recommendations to improve the site's operations, maintenance, or monitoring activities?

NONE.

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): John Kim, Kris Kommalan  
DATE: 03/20/01; INTERVIEW METHOD: MEETING

TOPIC: **SITE OPERATIONS, MAINTENANCE & MONITORING: SITE  
MANAGER, O&M MANAGER, SITE STAFF, & CONSULTANTS**

INTERVIEWEE: LED Wilson; TITLE: TECHNICIAN  
REPRESENTING: GPI  
ADDRESS: \_\_\_\_\_; PHONE: \_\_\_\_\_

1. What is/was your understanding of the overall remedy (OU1) at the Site?  
RETRIEVE ALL CONTAMINANTS IN CAPTURE ZONE AND  
TREAT IT THROUGH IGWTP.  
\_\_\_\_\_  
\_\_\_\_\_
2. What is your impression of the implemented remedy (OU1) at the Site?  
OPERATING WELL; A LITTLE BELOW CAPACITY.  
\_\_\_\_\_  
\_\_\_\_\_
3. What is your responsibility at the site (i.e., Management, O&M, Monitoring)?  
DAILY O&M OF IGWTP - 5-DAYS/week, 8-HR/DAY.  
\_\_\_\_\_  
\_\_\_\_\_
4. Please describe the O&M and Monitoring responsibilities of other staff and contractors directly under your supervision.  
N/A  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Describe any significant changes (or planned changes) to OU1 that are not addressed in the appropriate O&M manuals or plans.

SEE # 7.

6. Describe any O&M problems or difficulties, within the last 5-Years, that may have affected the protectiveness or effectiveness of the remedy to meet remedial objectives.

NONE, EXCEPT NORMAL MAINTENANCE.

7. Describe any activities implemented since start-up of OU1 to optimize O&M.

IMPELLER SIZE PUMPS TURNED (TRIMMED DOWN) FOR EFFICIENCY.  
SOLVENT RECOVERY SEPARATOR IS NO LONGER USED. SOLVENTS  
ARE NOW DECANTED. EXTRACTION WELL  
PUMPS WERE PLACED LOWER IN THE WELLS & PUMP  
SIZES WERE CHANGED.

8. Describe any activities implemented since start-up of OU1 to optimize on-site monitoring activities.

COMPUTERIZED CONTROL SYSTEM.

9. Are the annual O&M costs for the past 5-years consistent with the original estimated cost? If significantly higher or lower, please describe why the annual cost varied from the estimated cost. (Note: Obtain written annual cost data, if available).

*Unsure.*

10. Do you have any comments, suggestions, or recommendations to improve the site's operations, maintenance, or monitoring activities?

*Revisit pump controls w/ variable drives.*

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): JOHN KIM, TINA WESOLOSKIE  
DATE: 5/30/01; INTERVIEW METHOD: PHONE

TOPIC: **SITE BACKGROUND INFORMATION, NEIGHBORS & CAB REPRESENTATIVE**

INTERVIEWEE: SIM LEMMON; TITLE: GEOLOGIST  
REPRESENTING: GATEWAY TAG  
ADDRESS: 454 E. SUSAN LN.; PHONE: 480-941-5517  
TEMPE, AZ 85281

1. What is/was your understanding of the overall remedy (OU1) at the Site?  
CONTAINMENT OF PLUME AT CROSS-CUT CANAL INSTEAD  
OF AT THE PLANT WHERE IT SHOULD BE. INTERIM REMEDY  
ONLY.
2. What is your impression of the completed remedy (OU1) at the Site?  
PLUME IS CONTAINED IN THE ALLUVIUM. HOWEVER NOT  
ENOUGH DATA TO SHOW PLUME IS BEING CONTAINED IN  
BEDROCK. FEELS ADDITIONAL MONITORING POINTS ARE  
NEEDED. IN ADDITION, MR. LEMMON FELT THE  
BEDROCK MODEL WAS INVALID BECAUSE IT WAS BASED ON  
ONE MONITORING POINT.
3. Please describe your involvement or participation at the Site (if any).  
MR. LEMMON WAS HIRED BY THE GATEWAY TAG TO CONDUCT  
TECHNICAL REVIEWS OF THE OU1 EXTRACTION SYSTEM.
4. Do you feel that you were kept well informed about all phases of the project?  
YES. - OU1 ONLY (EXTRACTION SYSTEM). HOWEVER MR.  
LEMMON, FELT THAT HE WAS KEPT IN THE DARK  
ON THE OTHER SOURCE ISSUES ADDRESSED IN THE  
CONSENT ORDER (I.E. SVE).

5. What effects have the operation of OU1 had on you (or the surrounding community)?  
OU1 HAS SUFFICIENTLY DEWATERED THE ALLUVIUM TO ALLOW  
ALL COMMUNITIES TO GO AHEAD WITH THEIR DEVELOPMENT PLANS.  
OU1 HAS ALSO ALLOWED MOTOROLA TO BECOME INVOLVED  
WITH COMMUNITY AWARENESS.
6. During the past 5-years that OU1 has been in operation, were you aware (or informed) of any events, incidents, problems or activities that affected you (or the surrounding community)?  
BECAUSE MR. LEMMON WAS A FACT WITNESS IN THE  
TOXIC TORTUOUS LITIGATION IT WAS DIFFICULT FOR MOTOROLA  
TO CONTACT HIM, OR INFORM HIM OF ANY EVENTS, OTHER  
THAN WHAT WAS AVAILABLE PUBLICALLY.
7. Are you aware of any other community concerns regarding the site, the operation of OU1, and administration that have not been resolved?  
BECAUSE THE SITE WAS SOLD TO ~~SEM~~ ON SEMI-CONDUCTORS  
THERE WAS A CONCERN ON THE OPERATION OF THE TREATMENT  
UNIT AND THE DAY TODAY PLANT ACTIVITIES & HAZ. AIR POLLUTANTS.  
MR. LEMMON ALSO STATED THAT COMMUNITY WAS  
CONCERNED ABOUT TOTAL DOSE FROM THE MANUFACTURING STANDPOINT  
& REMEDIATION STAND POINT, WHICH SUPERFUND DOES NOT EXAMINE  
(I.E. AIR ISSUES).
8. Do you have any comments, suggestions, or recommendations regarding the effectiveness of OU1 in protecting human health or the environment?  
THE PLUME CONTAINMENT SHOULD BE AT THE FACILITY BOUNDARY  
INSTEAD OF THE CNWL. THE OU1 DOES NOT APPEAR  
TO BE EFFECTIVE FOR CONTAMINATION IN BEDROCK.
9. Can you recommend any additional community members that we should talk to?  
OTHER GATEWAY TAC MEMBERS (VELMA DUNN,  
CLYDE WHEELER, PERRY TIMNICK).

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): JOHN KIM  
DATE: 5/30/01; INTERVIEW METHOD: PHONE

TOPIC: **SITE BACKGROUND INFORMATION, NEIGHBORS & CAB REPRESENTATIVE**

INTERVIEWEE: KAREN O'REGAN; TITLE: WAB MEMBER  
REPRESENTING: CITY OF PHOENIX  
ADDRESS: \_\_\_\_\_; PHONE: 602 256-5669

1. What is/was your understanding of the overall remedy (OU1) at the Site?  
OU1 IS GROUNDWATER CONTAINMENT AT THE OLD CROSSCUT  
CANAL, AND W/ GROUNDWATER PUMP AND TREAT. HER UNDERSTANDING  
WAS THAT THE REMEDY DEALT MAINLY W/ THE ALLUVIUM.
2. What is your impression of the completed remedy (OU1) at the Site?  
SHE UNDERSTOOD THAT THERE WAS SOME CONTROVERSY ABOUT  
THE EFFECTIVENESS, BUT GENERALLY IS EFFECTIVE IN  
REMOVING THE HIGHER CONCENTRATIONS OF TCE.
3. Please describe your involvement or participation at the Site (if any).  
MS O'REGAN WAS ORIGINAL PROJECT MANAGER W/ EPA  
DURING THE TIME SITE WAS PLACED ON THE NPL. CITY OF  
PHOENIX, IS ALSO OWNS A PORTION OF PROPERTY ASSOCIATED  
WITH HONEYWELL. CONSEQUENTLY SHE IS MORE INVOLVED W/ OUR,  
THAN OU1. CITY OF PHOENIX IS ALSO A PRP FOR OUR.
4. Do you feel that you were kept well informed about all phases of the project?  
GENERALLY YES.

5. What effects have the operation of OU1 had on you (or the surrounding community)?  
IDENTIFIED CODY WILLIAMS AS THE COUNCILMAN THAT HAS BEEN INVOLVED WITH COMMUNITY ISSUES W/ OU1. DOES NOT KNOW IF THERE WAS ANY PHYSICAL IMPACT ON COMMUNITY. ~~IMMEDIATELY~~ KNOW THERE WAS GENERAL CONCERNS ON CONTAMINATION AND NEARBY IMPACT TO THE COMMUNITY.
6. During the past 5-years that OU1 has been in operation, were you aware (or informed) of any events, incidents, problems or activities that affected you (or the surrounding community)?  
SHUT DOWN OF OU1 DUE TO VINYL ~~CHLORIDE~~ CHLORIDE ISSUES. (1992 OR 1993).
7. Are you aware of any other community concerns regarding the site, the operation of OU1, and administration that have not been resolved?  
THE EXTENT OF CONTAMINATION HAS NOT BEEN RESOLVED YET. THERE IS ALSO CONCERNS REGARDING HEALTH RISK; WITH ALL THE CHANGES OCCURRING AT THE SITE, A REVISED RISK ASSESSMENT/EVALUATION MAY BE NEEDED. HAVE NOT HEARD COMMUNITY CONCERNS RECENTLY; MORE PAST CONCERNS. ONE OTHER CONCERN FROM PRPs IS ~~THE~~ IDENTIFICATION OF ALL POTENTIAL SOURCES IN THE AREA.
8. Do you have any comments, suggestions, or recommendations regarding the effectiveness of OU1 in protecting human health or the environment?  
NO - SHE HAS HAD MINIMAL PARTICIPATION W/ OU1.
9. Can you recommend any additional community members that we should talk to?  
SIM LEMMON, VELMA DUNN, STEVE BRITTLE, CYNTHIA PARKER, & CALVIN GOOD.

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): JOHN KIM  
DATE: 05/31/01; INTERVIEW METHOD: PHONE.

TOPIC: **STATE & LOCAL CONSIDERATIONS, STATE AGENCIES & LOCAL AUTHORITIES**

INTERVIEWEE: MARIA FANT; TITLE: PROJECT MANAGER  
REPRESENTING: ADEQ  
ADDRESS: \_\_\_\_\_; PHONE: 602 207-4194

1. What is/was your understanding of implementation of the remedy (OU1) at the Site?  
OU1 IS A PUMP & TREAT SYSTEM.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. What is your impression of the implemented remedy (OU1) at the Site?  
STANDARD ~~BY~~ TREATMENT OPERATION, STANDARD SYSTEM  
WORK AS FAR AS SHE KNEW TO SPECIFICATIONS.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. Have there been routine communications or activities conducted by you office related to the site?  
DURING HER TIME PERIOD AS PROJECT MANAGER, MS. FANT  
HAD REGULAR MEETS & CORRESPONDENCE W/ MOTOROLA &  
TAG.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. Have there been any complaints or other incidents related to the site requiring any response by your office?  
No.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Are you aware of any current or planned changes to your regulations/ordinances, or current/future land development that may impact the operations or remedies at the site?

No.

6. In your opinion, have appropriate O&M and monitoring activities been implemented for OU1, in accordance with approved manuals and plans?

YES.

7. Are you aware of any community concerns regarding the site or its operation and administration?

NO CURRENT ISSUES. HISTORICALLY THERE WERE ISSUES ASSOCIATED WHETHER THE SYSTEM COULD CLEAN UP THE BIRCK, WHETHER THE SYSTEM COULD CAPTURE THE PLUME, AND WHETHER SUBSIDENCE WOULD OCCUR AS A RESULT OF THE SYSTEM. ONE OTHER HISTORICAL ISSUE WAS AIR. WHEN ASKED IF SHE FELT THESE ISSUES HAD BEEN ADEQUATELY RESOLVE, MS. FANT ANSWERED YES.

8. Do you feel that you were kept well informed about all phases of the project?

YES.

9. Do you have any comments, suggestions, or recommendations regarding the O&M and/or effectiveness of OU1 to be protective of human health and the environment?

NO- SHE FEELS IT IS PROTECTIVE, AND SHOULD BE INCORPORATED INTO THE FINAL REMEDY.

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): JOHN KIM  
DATE: 05/31/01; INTERVIEW METHOD: PHONE

TOPIC: **STATE & LOCAL CONSIDERATIONS, STATE AGENCIES & LOCAL AUTHORITIES**

INTERVIEWEE: MASON BOLITHO; TITLE: MANAGER  
REPRESENTING: ADWR.  
ADDRESS: \_\_\_\_\_; PHONE: 602 417-2400

1. What is/was your understanding of implementation of the remedy (OU1) at the Site?  
WATER IS PUMPED DOWN GRADIENT TO SITE AND IS TREATED FOR CONTAMINANTS, AND REUSE OF ~~ADJUSTMENT~~ WATER.
2. What is your impression of the implemented remedy (OU1) at the Site?  
GENERALLY AS AN OU HIS IMPRESSION IS POSITIVE THAT IT ACCOMPLISHES IT'S INTENDED PURPOSE, TO GET AS MUCH CONTAMINATION OUT OF THE GROUND, WHERE THE CONCENTRATION ARE THE HIGHEST. HOWEVER ONE ~~THE~~ ISSUE IS CONTAMINATION IN THE BEDROCK, WHICH IS A CONTINUING <sup>ING</sup> SOURCE, WHICH HE FEELS IS A COMPLEX ISSUE THAT IS DIFFICULT TO ADDRESS.
3. Have there been routine communications or activities conducted by you office related to the site?  
TECHNICAL MEETING, PUBLIC MEETINGS, & HIS REVIEW OF QUARTERLY REPORTS (PQGWNP)
4. Have there been any complaints or other incidents related to the site requiring any response by your office?  
YES- WELL OWNER NEAR OU1 CAPTURE WELL FIELD, INDICATED THAT A PQGWNP SHOULD NOT BE ISSUED SINCE IT WOULD IMPACT HIS IRRIGATION WELL. ADWR REVIEWED THE CONCERN AND DETERMINED THAT EXTRACTION WELLS WOULD NOT HAVE ANY IMPACT ON HIS WELL.

5. Are you aware of any current or planned changes to your regulations/ordinances, or current/future land development that may impact the operations or remedies at the site?  
NO CHANGES OF REGULATIONS @ THIS TIME. HOWEVER  
HE DID INDICATE THAT ANY PRIVATE PROPERTY OWNER  
DOWN GRADIENT TO THE SITE COULD INSTALL EXEMPT  
WELLS; ALTHOUGH THE POTENTIAL WAS UNLIKELY.
6. In your opinion, have appropriate O&M and monitoring activities been implemented for OU1, in accordance with approved manuals and plans?  
YES.
7. Are you aware of any community concerns regarding the site or its operation and administration?  
DESCRIBED SOME ISSUES THAT CAME UP IN 1991, BASIC HEALTH  
ISSUES ASSOCIATED WITH GW CONTAMINATION; ISSUES W/ PROPERTY  
VALUES.
8. Do you feel that you were kept well informed about all phases of the project?  
YES - ADEQ IS DOING A GOOD JOB IN PROVIDING HIM  
WITH INFORMATION
9. Do you have any comments, suggestions, or recommendations regarding the O&M and/or effectiveness of OU1 to be protective of human health and the environment?  
FINAL REMEDY SHOULD CONSIDER OTHER POSSIBLE INNOVATIVE  
TECHNOLOGIES TO MINIMIZE STANDARD PUMP & TREAT. INNOVATIVE  
TECHNOLOGIES (BIOREMEDIATION) SHOULD ALSO BE EXAMINED  
FOR CONTAMINATION IN BEDROCK.  
NO REAL COMMENT ON OU1. - HOWEVER ADWR ALWAYS  
FAVORS RE-INJECTION, IF APPROPRIATE, OF TREATED WATER.

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): JOHN KIM-HSEF; JINIA WESOLOSKIE - ADEQ  
DATE: 5/31/01; INTERVIEW METHOD: PHONE

TOPIC: **SITE BACKGROUND INFORMATION, NEIGHBORS & CAB REPRESENTATIVE**

INTERVIEWEE: STEVE BRITTLE; TITLE: N/A  
REPRESENTING: DON'T WASTE ARIZONA  
ADDRESS: \_\_\_\_\_; PHONE: (602) 268-6110

1. What is/was your understanding of the overall remedy (OU1) at the Site?  
OU1 REMEDY IS A PUMP & TREAT. HE WAS INVOLVED IN THE  
EARLIER DAYS AND WAS GIVEN A TOUR OF THE FACILITY.  
\_\_\_\_\_  
\_\_\_\_\_
2. What is your impression of the completed remedy (OU1) at the Site?  
SEEMS TO BE PUT TOGETHER PRETTY WELL AND OPERATING AS  
INTENDED. MR. BRITTLE WAS AWARE OF A VINYL CHLORIDE  
ISSUE WHICH WAS RESOLVED.  
\_\_\_\_\_  
\_\_\_\_\_
3. Please describe your involvement or participation at the Site (if any).  
MEMBER OF TAG. MR. BRITTLE TOOK INFORMATION  
OF OU1 AND PROVIDED NEWSLETTERS TO THE SURROUNDING  
COMMUNITY. HE ALSO HAD A WEB SITE THAT PROVIDED  
INFORMATION ON OU1.  
\_\_\_\_\_  
\_\_\_\_\_
4. Do you feel that you were kept well informed about all phases of the project?  
YES.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. What effects have the operation of OU1 had on you (or the surrounding community)?  
NO EFFECT AT ALL. IN GENERAL, MR. BRITTLE FEELS THAT  
MOST COMMUNITY IS UNAWARE OF THE OPERATION OF  
OU1.
6. During the past 5-years that OU1 has been in operation, were you aware (or informed) of any events, incidents, problems or activities that affected you (or the surrounding community)?  
No.
7. Are you aware of any other community concerns regarding the site, the operation of OU1, and administration that have not been resolved?  
No.
8. Do you have any comments, suggestions, or recommendations regarding the effectiveness of OU1 in protecting human health or the environment?  
WOULD BE INTERESTED IN FINDING OUT IF THERE HAS  
BEEN ANY OTHER VINYL CHLORIDE ISSUES, AND IF THE  
SYSTEM IS ADEQUATELY CONTROLLING THE EMISSIONS.  
ALSO CURIOUS TO SEE IF THERE IS AN UPDATED RISK  
ASSESSMENT, THAT ASSESSES ANY CHANGES IN EXPOSURE  
SCENARIOS.
9. Can you recommend any additional community members that we should talk to?  
No

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): JOHN KIM  
DATE: 05/31/01; INTERVIEW METHOD: PHONE.

TOPIC: **STATE & LOCAL CONSIDERATIONS, STATE AGENCIES & LOCAL AUTHORITIES**

INTERVIEWEE: BILL RUDDIMAN; TITLE: PROJECT MANAGER  
REPRESENTING: ADEQ  
ADDRESS: \_\_\_\_\_; PHONE: 602 207-4414

1. What is/was your understanding of implementation of the remedy (OU1) at the Site?  
OVERSITE OF OU1 -> SOURCE CAPTURE REMEDY.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. What is your impression of the implemented remedy (OU1) at the Site?  
CONCERNED ABOUT THE PLUME MIGRATING BEYOND CAPTURE ZONE IN BEDROCK. HOWEVER AFTER MANY CORRESPONDENCE W/ MOTOROLA HE WAS CONVINCED THAT THE ENTIRE PLUME WAS BEING CAPTURED.  
\_\_\_\_\_  
\_\_\_\_\_
3. Have there been routine communications or activities conducted by you office related to the site?  
HISTORICALLY - YES; REVIEWED ALL REPORTS & CORRESPONDENCE PROVIDED BY MOTOROLA.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. Have there been any complaints or other incidents related to the site requiring any response by your office?  
HISTORICALLY - PUBLIC COMPLAINTS ON <sup>TIMELINESS</sup> ~~EFFICIENCY~~ IN RESPONDING TO THERE CONCERN.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Are you aware of any current or planned changes to your regulations/ordinances, or current/future land development that may impact the operations or remedies at the site?  
NO.
6. In your opinion, have appropriate O&M and monitoring activities been implemented for OU1, in accordance with approved manuals and plans?  
YES.
7. Are you aware of any community concerns regarding the site or its operation and administration?  
NOT CURRENTLY
8. Do you feel that you were kept well informed about all phases of the project?  
YES.
9. Do you have any comments, suggestions, or recommendations regarding the O&M and/or effectiveness of OU1 to be protective of human health and the environment?  
BEGIN LOOKING AT TREATING THE SOURCE WITH  
NEWER INOVATIVE TECHNOLOGIES, IN ORDER TO REDUCE  
TIMEFRAME OF GW PUMP & TREAT.

**INTERVIEW QUESTIONNAIRE**  
**MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW**

INTERVIEWER(S): JOHN KIM  
DATE: 06/01/01; INTERVIEW METHOD: PHONE

TOPIC: **STATE & LOCAL CONSIDERATIONS, STATE AGENCIES & LOCAL AUTHORITIES**

INTERVIEWEE: NADIA HOLLAN; TITLE: PROJECT MANAGER  
REPRESENTING: EPA, REGION 9  
ADDRESS: \_\_\_\_\_; PHONE: 415-744-2363

1. What is/was your understanding of implementation of the remedy (OU1) at the Site?  
MAINLY SOIL CLEAN UP AND INTERIM GW REMEDIATION  
REMEDY.
2. What is your impression of the implemented remedy (OU1) at the Site?  
GW PORTION IS EFFECTIVE IN ALLUVIUM. HOWEVER THERE  
ARE SOME CONCERNS ON THE EFFECTIVENESS IN BEDROCK.  
IN TERMS OF THE SOIL, THERE ARE ADDITIONAL DATA NEEDED  
TO DEMONSTRATE THAT THE SYSTEMS HAVE ACHIEVED THEIR GOALS.
3. Have there been routine communications or activities conducted by you office related to the site?  
NOT ROUTINE - ADEQ IS THE LEAD AGENCY AND EPA  
FUNCTIONS AS AN OVERSIGHT AUTHORITY.
4. Have there been any complaints or other incidents related to the site requiring any response by your office?  
PERIODICALLY THERE HAVE BEEN INFORMATIONAL REQUESTS  
MADE. SHE COULD NOT REMEMBER ANY SPECIFIC, BUT  
SHE FELT MAJORITY OF THE ISSUES WERE MINOR.

5. Are you aware of any current or planned changes to your regulations/ordinances, or current/future land development that may impact the operations or remedies at the site?  
*PROPOSED*  
NOT BE AWARE OF ANY, MAY BE CHANGES IN ARSENIC LEVELS.
6. In your opinion, have appropriate O&M and monitoring activities been implemented for OU1, in accordance with approved manuals and plans?  
NO OPINION.
7. Are you aware of any community concerns regarding the site or its operation and administration?  
COMMUNITY WOULD LIKE TO BE KEPT UPDATED ON OPERATION STATUS OF OU1.
8. Do you feel that you were kept well informed about all phases of the project?  
YES.
9. Do you have any comments, suggestions, or recommendations regarding the O&M and/or effectiveness of OU1 to be protective of human health and the environment?  
ADDITIONAL DATA SHOULD BE COLLECTED ON EVALUATING SOURCE CONTROL TO BE CONSIDERED IN FINAL REMEDY.  
~~ROD WILL BE PRIMARY REMEDIATION~~

INTERVIEW QUESTIONNAIRE  
MOTOROLA 52<sup>ND</sup> STREET SUPERFUND SITE, 5-YEAR REVIEW

INTERVIEWER(S): JOHN KIM  
DATE: 06/06/01; INTERVIEW METHOD: PHONE

TOPIC: SITE BACKGROUND INFORMATION, NEIGHBORS & CAB  
REPRESENTATIVE

INTERVIEWEE: CODY WILLIAMS; TITLE: COUNCILMAN  
REPRESENTING: CCP COUNCIL  
ADDRESS: \_\_\_\_\_; PHONE: 602.262-7493

1. What is/was your understanding of the overall remedy (OU1) at the Site?  
PUMPING UNDERGROUND WATER AND TREATING IT PRIOR TO  
REINJECTION (HIS RECOLLECTION).
2. What is your impression of the completed remedy (OU1) at the Site?  
VERY AMBITIOUS AND COMPLEX SOLUTION THAT CAN  
HOPEFULLY ACHIEVE THE OUTCOMES THAT HAVE BEEN  
STATED.
3. Please describe your involvement or participation at the Site (if any).  
MUCH OF CONTAMINATED GROUNDWATER FLOWS THROUGH  
MR. WILLIAMS DISTRICT. HE HAS A LOT OF COMMUNITY  
MEMBERS IN HIS DISTRICT THAT ARE WAITING TO SEE THE  
OUTCOME OF OU1 TO THE FINAL REMEDY. HE WANTS TO  
MAKE SURE THAT THEIR BEST INTERESTS ARE ACCOUNTED FOR.
4. Do you feel that you were kept well informed about all phases of the project?  
MOTOROLA & ADEQ HAS BEEN KEEPING HIM WELL INFORMED.

5. What effects have the operation of OU1 had on you (or the surrounding community)?

DON'T BELIEVE THAT MUCH IMPACT HAS OCCURRED.

6. During the past 5-years that OU1 has been in operation, were you aware (or informed) of any events, incidents, problems or activities that affected you (or the surrounding community)?

NO NOT RELATED TO PHYSICAL OPERATION OF OU1.

7. Are you aware of any other community concerns regarding the site, the operation of OU1, and administration that have not been resolved?

NO.

8. Do you have any comments, suggestions, or recommendations regarding the effectiveness of OU1 in protecting human health or the environment?

NECESSARY TO CONTINUE INFORMING THE COMMUNITY ON THE OPERATION STATUS AND ON-GOING EFFECTIVENESS OF OU1. HE WOULD LIKE TO BE UPDATED ON A REGULAR BASIS (QUARTERLY, BIANNUALLY, ETC) ON THE EFFECTIVENESS OF OU1.

9. Can you recommend any additional community members that we should talk to?

ASSISTANT WILL MAKE A LIST AND FAX IT TO JOHN KIM.



**Honeywell**

Honeywell  
402 S. 36th Street  
M/S 101-117  
Phoenix, AZ 85034

SFUND RECORDS CTR  
82732

August 7, 2000

Kris Kommalan  
Arizona Department of Environmental Quality  
Project Manager  
Superfund Programs Section  
3033 North Central Avenue  
Phoenix, Arizona 85012

SUBJECT: Motorola 52<sup>nd</sup> Street Superfund Site, five-year review of Operable Unit One (OU1).

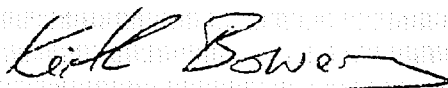
Dear Kris:

Attached is our technical analysis of the OU1 interim remedy at the Motorola 52<sup>nd</sup> Street Superfund Site. This review has been prepared by Dr. David Huntley, Professor of Geological Sciences at San Diego State University. His resume is also attached to this letter.

Dr. Huntley's analysis uses five widely accepted technical tests to determine if OU1 has been effective in stopping further contamination from the Motorola 52<sup>nd</sup> Street Site. These tests indicate that it is likely that the OU1 treatment system wells are too widely spaced, and that OU1 will not contain all of the contamination from the underground pools of chlorinated solvents at Motorola. These chlorinated solvents have been a source of contamination at Motorola since the late 1950's and early 1960's.

Thank you for considering our analysis in your review of the Motorola OU1 interim remedy. Please contact me if I can provide any more information.

Sincerely,



Keith Bowers  
Honeywell

cc: John Kivett  
Moses Olade  
David Esposito

## 1.0 ASSESSMENT OF THE EFFECTIVENESS OF MOTOROLA OU1

If OU1 is not completely effective, then the 52<sup>nd</sup> Street facility will act as an ongoing source of contaminants. This is particularly important, as it has been demonstrated that dense non-aqueous phase liquids (DNAPLs) exist at the Motorola 52<sup>nd</sup> Street facility. Because the solubility of contaminants such as TCE is much, much lower than the mass of those constituents in the DNAPL, DNAPLs act as very long term sources, potentially lasting for periods of decades to hundreds of years.

Motorola has prepared a series of reports on the effectiveness of OU1 dating back to 1992. In these reports, Motorola uses measured drawdown (relative to 1992 baseline measurements), water level contours, changes in monitoring well concentration, and the results of numerical modeling to conclude that OU1 is capturing solutes both within the alluvium and within the underlying bedrock. We have undertaken an independent analysis of this issue, focusing on the effectiveness of the offsite line of wells (DM-305 through DM-313), using five approaches:

1. Application of analytic well hydraulics capture zone equations to assess the necessary spacing between wells DM-305 through DM-313 to assure capture in the alluvium, and by analogy, in the underlying fractured rock system.
2. Construction of water level contour maps in the alluvium and at approximately constant horizontal planes in the underlying bedrock.
3. Assessment of directions of groundwater flow along a cross-section parallel with the direction of groundwater flow, and calculation of vertical hydraulic gradient from that cross-section.
4. Calculation of the vertical variations in head at specific well clusters, along with the temporal changes in those vertical gradients.
5. Calculation of mass recovery rates of TCE and comparison to the initial flux of TCE through a cross-section through and beyond wells DM-305 through DM-313.

### 1.1 ANALYTIC SOLUTIONS

Theoretical capture zones were calculated both by using the analytic equations presented by Javandel and Tsang (1986) and by using the steady-state, unconfined well hydraulics equation, together with construction of a vector map to assess the degree to which capture is complete. Both solutions depend upon the assumed hydraulic conductivity and transmissivity of the aquifer. There are three aquifer tests that can be used in this general area to assess these properties. A multi-well pump test was conducted at well DM-301, resulting in calculated transmissivities of 2000 feet<sup>2</sup>/day and an average hydraulic conductivity of 40 feet/day. Probably the most relevant aquifer test to assess the performance of the wells between DM-305 and DM-313 is the

multi-well test of DM-202, which included monitoring of DM-202-OB1 and DM-202-OB2, each located about 120 feet on either side of DM-202 (Figure 1). DM-202-OB1 is effectively coincident with DM-306, while DM-202 is located between DM-305 and DM-306. The results of this test (Dames & Moore, 1987) indicate a transmissivity of 2800 feet<sup>2</sup>/day from a 55 foot saturated thickness, or an average hydraulic conductivity of 51 feet/day.

No controlled aquifer tests have been conducted on wells DM-305 through DM-313. In June, 1993, however, the wells were shut down after approximately one year of 24 hr/day operation. The recovery of well DM-305 was monitored and reported in Dames & Moore (1994). That recovery, however, is the result of recovery from shutting down not only well DM-305, but DM-306 through DM-313, as well. It can be shown that, at late times when the Cooper-Jacob approximation is valid, that the drawdown,  $s$ , (or recovery) from mutually interfering wells is given by;

$$s = \sum_{i=1}^n \frac{2.3Q_i}{4\pi T} \text{Log} \frac{2.25Tt}{r_i^2 S}$$

where  $Q_i$  is the pumping rate of the  $i$ th well,  $T$  is the aquifer transmissivity,  $t$  is the time since pumping (or recovery) begins,  $r_i$  is the distance to the  $i$ th well, and  $S$  is the storage coefficient of the aquifer. The difference in drawdown,  $s_2 - s_1$ , between two periods of measurement,  $t_2$  and  $t_1$ , is given as;

$$s_2 - s_1 = \frac{2.3}{4\pi T} \sum_{i=1}^n Q_i \text{Log} \frac{t_2}{t_1}$$

Therefore, the transmissivity can be calculated as;

$$T = \frac{2.3 \sum_{i=1}^n Q_i}{4\pi \Delta s}$$

where  $\Delta s$  is the drawdown (or recovery) per log cycle.

Based on the reported production volumes during 1993 and the period of production, the average total pumping rate for DM-305 through DM-313 for the period prior to

shutdown was 624 gpm (Table 1). Because the wells had been pumping for a relatively long period of time, the recovery from the initial water level under pumping conditions was treated in the same manner as drawdown under pumping conditions (Figure 2). The recovery shows an initial rapid rate of response while the groundwater level in the well is below the alluvial/bedrock interface, then a more gradual rate of recovery that reflects the transmissivity of the alluvium. Analysis of this latter rate of response results in a calculated transmissivity of 3280 feet<sup>2</sup>/day, or an average hydraulic conductivity of 43 feet/day using an average saturated thickness of 76 feet, and assuming the underlying bedrock is contributing negligible transmissivity to the well response. Because the recovery of DM-305 reflects the cumulative pumping of wells DM-305 through DM-313, the resulting transmissivity is an average of the entire line of wells, but this average is heavily weighted toward the area near DM-305.

Unfortunately, no other aquifer tests are reported for the line of extraction wells. This deficiency is particularly important near DM-309 and DM-310, where the bedrock channel deepens and the soils become more coarse-grained. The expression of this trough in the bedrock surface can be seen in Figure 1 in the contours of the saturated alluvium thickness in the vicinity of well DM-309 and trending west-northwest. North-South cross-section AA' (Figure 3) (constructed through the line of OU1 extraction wells shown in Figure 1, but also showing wells further north and south of the extraction wells) shows that the saturated thickness of the alluvium near DM-309 and DM-310 was about 96 feet in 1992 prior to OU1 extraction, nearly twice the saturated thickness of the alluvium at DM-202 at the time of the aquifer test and three times the saturated thickness of the alluvium at DM-305 in 1992. Further, the specific capacity of wells DM-309 and DM-310 is 4.5 to 7.5 times that of DM-305 and DM-306, suggesting much higher transmissivities in the bedrock channel defined by DM-308 through DM-310. Using the results of the DM-202 aquifer test as a guide, transmissivity in the deepest part of the bedrock channel along the DM-305 to DM-313 line of extraction wells could be as high as 21,000 feet<sup>2</sup>/day.

Javandel and Tsang (1986) derive recommended well spacings to assure complete capture (no solutes can slip between adjacent pumping wells). For three or more equally spaced wells, each pumping the same rate, the recommended distance, *d*, between wells is given as approximately:

$$d = \frac{1.2Q}{\pi Ti}$$

where *Q* is the well pumping rate, *T* is the aquifer transmissivity, and *i* is the hydraulic gradient prior to pumping (0.013 at Motorola 52<sup>nd</sup> Street facility). In 1998, seven wells (DM-305 to DM-311), spaced 300 feet apart, were pumping an average of 50 gpm. For a 50 gpm pumping rate, the recommended well spacing is 150 feet for a transmissivity of 2000 feet<sup>2</sup>/day (the result of the DM-301 aquifer test), 90 feet for a transmissivity of 3300 feet<sup>2</sup>/day (the result of the DM-202 aquifer test and the DM-305 recovery test) and

15 feet for a transmissivity of 21,000 feet<sup>2</sup>/day (the possible transmissivity in the thickest part of the bedrock channel).

Motorola uses an average hydraulic conductivity of 20 feet/day for the alluvium in its numerical model of OU1, which would result in a transmissivity of 1000 feet<sup>2</sup>/day. Use of a pumping rate of 50 gpm and a transmissivity of 1000 feet<sup>2</sup>/day would produce a recommended well separation of 300 feet, the existing spacing at the OU1 well field. This, however, appears to under-represent both the hydraulic conductivity and the transmissivity. Based on the Javandel and Tsang solution, well spacings along the DM-305 to DM-313 line of interception wells is not sufficiently small to capture solute moving west from the Motorola 52<sup>nd</sup> Street facility.

More recently, Erdmann (2000) presents an analysis that expands upon the capture zone work of Javandel and Tsang (1986). Erdmann suggests that, for a seven-well line of capture wells, the critical spacing between wells is  $0.446Q/Ti$ , but recommends well spacings of  $0.33Q/Ti$ , which would result in even smaller well spacings than is indicated by the analysis using the equation of Javandel and Tsang (1986). A simple way of looking at the problem, using the recommended well spacings of Erdmann (2000), is that the total pumping rate ( $Q_t$ ) from a line of interception wells must be, at a minimum, 2.2 times the rate of contaminated groundwater moving through the capture zone under ambient conditions. He further recommends that well spacing be such that the line of interception wells pumps 3 times the amount of contaminated groundwater moving through the capture zone under ambient conditions. The rate of ambient groundwater flow is simply given as  $LTi$ , where  $L$  is the width of the zone of contaminated groundwater at the line of interception wells,  $T$  is the transmissivity, and  $i$  is the gradient. Using a contaminated groundwater zone width of 2,200 ft (from about halfway between DM-602 and DM-305 to halfway between DM-311 and DM-312, Figure 4), a transmissivity of 3200 feet<sup>2</sup>/day and a gradient of 0.012, the ambient rate of contaminated groundwater flow across the line of interception wells was 440 gpm. Based on the analysis of Erdmann (2000), the minimum critical pumping rate for interception of the plume is  $2.2 \times 440$  gpm, or 970 gpm, and the recommended rate of pumping is 1320 gpm. In comparison, the actual total pumping rate for the seven wells (DM-305 through DM-311) was only 330 gpm in 1998 and 1999, and peaked at 624 gpm for a limited period of operation in 1993 (Table 1). This conclusion is not modified by the additional pumping occurring in the Courtyard area, near MP-03D, or in the Southwest Parking Lot area, which were reportedly pumped at 45 gpm and 2.25 gpm, respectively, in 1999 (Clear Creek Associates, 2000).

It should be also be noted that locally, specifically near DM-309 and DM-310, transmissivities are likely much higher. The minimum pumping rates to achieve capture here are in the range of 160 to 400 gpm per well (for transmissivities of 8500 to 21,000 feet<sup>2</sup>/day). These rates have never been approached even by DM-310 (Table 1b), despite the fact that it has a specific capacity of 7.5 times that of DM-305. This analysis suggests the potential for a significant amount of contaminated groundwater to move through the line of interception wells, particularly in the bedrock channel near DM-309 and DM-310.

The result of the application of the analytic (steady-state) unconfined aquifer well hydraulics equation is similar. The calculated groundwater elevation in an unconfined aquifer under steady-state conditions is given by the Thiem equation:

$$h = \sqrt{H^2 - \sum_{i=1}^n \frac{Q_i}{\pi K} \ln \left( \frac{r_0}{r_i} \right)}$$

where  $h$  is the groundwater elevation measured from the base of the aquifer,  $H$  is the original groundwater elevation, also measured from the base of the aquifer,  $Q_i$  is the pumping rate of the  $i$ th well,  $K$  is the aquifer hydraulic conductivity,  $r_0$  is the radius of influence of the well, and  $r_i$  is the distance to the  $i$ th well. This equation was solved for a system of seven wells pumping 30 gpm, 16 gpm, 47 gpm, 45 gpm, 65 gpm, 99 gpm, and 20 gpm, respectively, from DM-305 through DM-311 (their 1998 production rates - see Table 1) under an initial hydraulic gradient of 0.012. The resulting water levels were contoured and directions of groundwater flow were calculated (Figures 5 and 6) for hydraulic conductivities of 40 feet/day and 20 feet/day. The results are similar to those of the analysis using the Javandel and Tsang (1986) capture zone equations. Use of a hydraulic conductivity of 40 feet/day results in incomplete capture of groundwater moving toward the line of extraction wells, resulting in continued downgradient movement of contamination. Use of a lower value of hydraulic conductivity, 20 feet/day, results in complete capture of upgradient groundwaters moving toward the line of extraction wells, but still does not result in capture of groundwaters further downgradient than wells DM-605 or the Turnage well. This is important, because concentrations of TCE in the Turnage well were reported to be 12,000 ug/l in 1984, which may indicate proximity to a DNAPL source.

The results from the pump testing of DM-301, DM-202, and the recovery of DM-305 all indicate that the line of extraction wells is placed in an area where the average transmissivity is 3000 to 4000 feet<sup>2</sup>/day and where the average hydraulic conductivity is 40 feet/day or more. Both the Javandel and Tsang (1986) analysis and the application of the Thiem equation indicate that, at those transmissivities and hydraulic conductivities, capture of contaminated groundwater at the line of extraction wells is incomplete. Dames & Moore, in a series of OU1 effectiveness reports dating back to 1992, rely heavily on the results of a numerical model to show plume capture. The numerical model, however, uses a hydraulic conductivity of 20 feet/day (Dames & Moore, 1995) for the alluvium, a value considerably lower than that measured by any of the relevant pump tests or that indicated by the recovery of DM-305. Indeed, analytic solutions using a hydraulic conductivity of 20 feet/day, or an equivalent transmissivity of 1000 feet<sup>2</sup>/day also show plume capture. Therefore, we conclude from this analysis that the application of the Dames & Moore model to show capture of the plume by the line of extraction wells at DM-305 through DM-313 is flawed, and that use of appropriate values of hydraulic conductivity indicate incomplete plume capture.

## 1.2 WATER LEVEL CONTOUR MAPS

Water level contour maps were constructed from the fourth quarter, 1999, water level data for the alluvium as well as for the elevation 900 foot level, the elevation 1000 foot level, and elevation 1100 foot level in the bedrock. It should be noted that these water level contour maps do not include the water levels in the actual production wells, because water levels in production wells are affected by turbulent well loss and because drawdowns decrease exponentially away from production wells, so the use of water levels from extraction wells exaggerates the effect of the wellfield on groundwater flow. Previous water level contour maps used to demonstrate plume capture at OU1 (for example, Clear Creek Associates, 2000) do include the measured water levels in the pumping wells and, therefore, overestimate the effectiveness of OU1 plume capture.

The resulting water level contour map for wells completed in the alluvium (Figure 7) shows that production from DM-305 through DM-313 resulted in a change in the shapes of the water level contours between April/May 1992 (blue contour lines) and fourth quarter 1999 (black contours). Production has produced a trough downgradient of the well field and has drawn groundwater from the north and south toward the well field. However, because of the lack of monitoring wells within the wellfield itself, the fourth quarter 1999 water level contours do not preclude groundwater and solutes bypassing the wells and moving downgradient.

Contouring of water levels in the bedrock produces similar results (Figure 8). The limited data available suggest that production from the DM-305 through DM-313 wellfield has had some impact on groundwater flow directions in the underlying fractured bedrock, drawing groundwater in from the north and south, and producing a groundwater trough to the west - southwest of the wellfield. Again, however, the directions of groundwater flow indicated by the water level contours do not preclude solutes escaping capture by the wellfield and migrating downgradient.

The use of water level contours to assess the completeness of plume capture at the Motorola 52<sup>nd</sup> Street facility is inconclusive. Because of the lack of monitoring wells in close proximity to the line of extraction wells, capture cannot be demonstrated through the use of contour maps. The inclusion of water levels from pumping wells in water level contour maps constructed by Dames & Moore (1992 through 2000) is misleading. The wells have unknown efficiencies, so it is unclear how much of the drawdown measured in the production wells is reflected by drawdowns in the aquifer adjacent to the well. In addition, drawdowns decrease exponentially away from pumping wells, so drawdowns halfway between two pumping wells 300 feet apart may not be sufficient to ensure complete plume capture in the alluvium. As discussed above, application of analytic solutions to the problem, using appropriate values of aquifer hydraulic conductivity, suggest that the wells are not spaced closely enough for complete capture.

### 1.3 GROUNDWATER FLOW CROSS-SECTION

Much discussion surrounding the effectiveness of OU1 capture has focused on the effectiveness in the underlying fractured bedrock. The analysis above suggests that plume capture may not be complete in the alluvium, let alone the underlying bedrock. The assessment of plume capture in the underlying fractured bedrock is made particularly difficult because it is a complex, heterogeneous system and because the flow field induced by pumping from the alluvium is now a three-dimensional flow field. One measure of the effectiveness of plume capture in the underlying bedrock is to look at the vertical gradients. The reader should be aware that this type of analysis can be misleading. For example, consider the situation where groundwater is pumped from alluvium overlying a bedrock unit that is absolutely isolated from the alluvium. Pumping from the alluvium would decrease the heads in the alluvium, but leave groundwater elevations in the bedrock unaffected. As a result, an upward vertical gradient between the bedrock and the alluvium would be produced, yet that gradient would not be indicative of upward flow to the alluvium.

Nevertheless, analysis of the directions of the gradients can be useful, if used with care. Certainly downward or zero vertical gradients in the bedrock below the production intervals indicate that plume capture is incomplete. To help assess whether production from DM-305 through DM-313 has resulted in a mechanism for solutes to move up and be captured by the wellfield, a cross-section was drawn approximately parallel to the direction of groundwater flow through the wellfield. This cross-section starts at DM-603 and trends easterly to MP-25. It is coincident with cross-section AA' from the Dames & Moore OU1 effectiveness reports.

Figure 9 presents two results for the same cross-section. The upper most cross-section shows the results of contouring the hydraulic head and groundwater flow direction including data from the production wells DM-304 and DM-307 (Figure 9, part A). For comparison, the heads from the production well data have been removed from the second cross-section. Inclusion of the production well data in the water level contour produces projected water level changes away from the production well that are not supported by monitoring well data (Figure 9, part B). The cross-section constructed with only monitoring well data (Figure 9, part B) shows a system dominated by westerly and downward groundwater flow, except near production wells, where there appears to be an upward gradient within the alluvium and between the shallowest bedrock and the alluvium. Again, because of the lack of monitoring wells near the line of extraction wells, the cross-sections are not conclusive. There appears to be significant upward gradients near production well DM-304, as exhibited by the data from DM-601. However, near production well DM-307, there is a downward component of groundwater flow from the production interval in the alluvium and shallow bedrock to deeper bedrock, but an upward component of flow from the deepest bedrock to intermediate bedrock depths.

As in the plan-view water level contours, the cross-section view water level contours do not demonstrate plume capture. Indeed, the presence of a downward gradient from well DM-606 to DM-603 and the presence of vertical gradients in well DM-603

converging to a zone that is deeper than the production interval of DM-307 suggest that contaminated groundwater from Motorola 52<sup>nd</sup> Street facility may be migrating offsite in a permeable fracture zone at depth.

#### 1.4 ANALYSIS OF VERTICAL GRADIENTS IN DISCRETE WELLS

To better understand the effect of production on vertical gradients in DM-601, DM-606, and DM-603, without introducing possible artifacts from the contouring process, the vertical variations in head at these three wells were examined. These wells were selected as they all have high reported concentrations of contaminants in the bedrock. The approach used was to calculate the difference in reported hydraulic head between adjacent intervals. The convention for these calculations is that greater head at depth is reported as a positive difference (vertical upward component of flow) and lesser head at depth is reported as a negative difference (downward component of flow). These calculated vertical head differences were used to assess both whether there was a demonstrable upward gradient within the bedrock to the production intervals and, if so, whether those upward gradients were induced by pumping or had existed previously. To address these questions, scatter plots of vertical head differences as a function of time were prepared for wells DM-601, DM-603, and DM-606 (Figures 10 to 12).

The calculated vertical differences in head in well DM-601, located immediately northwest of the Courtyard area of Motorola 52<sup>nd</sup> Street facility, provide evidence that pumping in the vicinity of DM-601 has induced or increased an upward gradient in bedrock to a depth of 200 feet (Figure 10). Of particular significance is that vertical gradients between DM 601-200 and DM 601-135 (Figure 10) were downward until early 1995 and are now upward, and that there has been a continuing trend of increasing upward gradient. Similarly upward gradients appear to be increasing with time at all depth intervals.

The same conclusion cannot be drawn for DM-606 (Figure 11). The hydraulic gradient between DM-606-45, screened in alluvium, and DM-606-102, screened in bedrock was downward or zero for the first available measurements, and continues to be downward or zero with no significant trend. The same is true of the gradient between the 185 foot screen interval and the 102 foot screen interval and between the 185 and 250 foot screen interval. Of more concern is that the initial downward gradient between the 250 and 330 foot screen interval is becoming even more downward. This increasingly downward gradient to the 250 foot screen interval (elevation 924 to 956 foot ) is not induced by pumping, which occurs from the 1009 to 1128 foot elevation zone, unless one of the production wells is connected to a network of fractures that is isolated from the shallower horizons, but connected to a deeper set of fractures, which again seems a remote possibility. More likely, the vertical differences in head in this well indicate flow toward a more permeable fracture zone near the 250 foot screen interval, and subsequent westerly flow along this fracture zone.

The vertical head differences in DM-603 (Figure 12) similarly do not support capture of the Motorola 52<sup>nd</sup> Street plume by OU1. The vertical head differences between the DM-

603-68 (alluvium) and DM-603-115 (interface) show an initial neutral gradient, becoming markedly downward at later times. Vertical gradients between the 115 foot screen interval and the 170 foot interval, screened in bedrock, are initially neutral and show a slight downward trend with time. Interestingly enough, groundwater flow was initially downward from the 205 to the 170 foot screen interval, but have become upward, while the gradient from the 245 to the 205 foot screen interval have been upward since the first measurements. These observations describe a system where shallow groundwater is moving downward and deep groundwater is moving upward toward a low head zone from 998 to 1019 foot of elevation. While it is possible that this represents the influence of the extraction well network (well DM-309 is screened from 1009 to 1059 foot of elevation), the closest extraction wells, DM-306 and DM-307, are screened only to 1078 and 1047 feet of elevation, respectively.

The results of this analysis indicate that production from the onsite wellfields (DM-301 through DM-304) is effective at producing an upward gradient from bedrock to the shallow alluvium. Similar analysis of wells near the offsite wellfield (DM-305 through DM-313) however, does not demonstrate plume capture within the underlying bedrock and more readily supports an interpretation that groundwater in parts of the underlying bedrock are incompletely captured. At DM-606 gradients are strongly negative (downward) and are becoming more so with time, suggesting that the line of extraction wells is not drawing groundwater vertically upward near DM-606. At DM-603, groundwater is flowing toward a zone at about 170 feet, and the gradient is increasing with time, implying that head is declining in that zone more rapidly than zones above and below. This may be a result of production from OU1, but is just as likely to be from the basinwide decline in groundwater elevations.

### **1.5 MASS FLUX CALCULATION**

The purpose of OU1 is to both remediate the contamination at the Motorola site and to prevent downgradient migration of additional solutes through plume capture. One way of assessing the effectiveness of interception, is to compare the mass flux of a component, such as TCE, prior to production, to the rate of mass removal from the system. The rate of mass removal from the extraction system is simply the product of the discharge from each well (DM-305 through DM-313) and the concentration at that well.

Figure 13 shows that the total rate of extraction of TCE from DM-305 through DM-313 has varied from about 15,000 gm/day in 1992 and 1993, to 3,800 gm/day in 1997 and 1998.

Mass flux prior to the initiation of production from OU1 was calculated using concentrations measured in April/May 1992. Mass flux was calculated separately for the alluvium and the bedrock. For the alluvium, data from wells DM-602, DM-305 through DM-313, and DM-701 were used to assess the concentrations along a cross-section perpendicular to the direction of groundwater flow. Concentrations in the screened interval of the well were assumed to be representative of the average

concentration from the water table to the bedrock interface. Concentrations were also assumed to vary logarithmically between wells. The mass flux in the alluvium was calculated using the resulting concentrations, the saturated cross-sectional area of the alluvium, a hydraulic gradient of 0.013, and a hydraulic conductivity of 40 feet/day, resulting in a mass flux of 1,135 gm/day of TCE. In the bedrock, it was assumed that high concentrations existed in fractures below the area from DM-305 through DM-309. The concentration profiles in wells DM-603 and DM-606 suggest that high concentrations exist to depths of 300 feet below the top of the bedrock, and an average concentration of 6,000 ug/l TCE was assumed, based on the May 1992 data from DM-603. The resulting calculated mass flux is strongly (linearly) dependent upon the value of hydraulic conductivity assumed. Using the geometric mean hydraulic conductivity of 0.03 feet/day the resulting mass flux is 25 gm/day. However, 10% of the measured fracture hydraulic conductivities exceed 0.5 feet/day and 5% exceed 1 foot/day. Use of a 1 foot/day hydraulic conductivity would produce a calculated mass flux of 780 gm/day. This analysis, of course, assumes that much higher concentrations of TCE do not exist in undetected fractures that are in contact with DNAPL phase TCE, which would increase mass flux by orders of magnitude.

The resulting mass flux in both the alluvium and the fractured rock, excluding the possibility of high concentration zones in contact with DNAPL, is likely in the range of 1,150 to 2,000 gm/day.

There is evidence that concentrations of TCE along the line of extraction wells is, or was, locally higher than those measured in DM-305 through DM-313. For example, concentrations in MP-49 have been measured as high as 21,000 ug/l in the same interval as the screened zone of DM-305 (Figure 4), which reported a 4,500 ug/l concentration in 1992. Concentrations in MP-51 have been measured as high as 3,970 ug/l in the same interval as a reported 550 ug/l concentration in adjacent DM-310. Further, concentrations in the fractured bedrock in MP-49 and DM-603 have been measured as high as 14,000 ug/l and 22,000 ug/l, respectively, rather than the 6,000 ug/l concentrations assumed for the mass flux analysis. Use of these higher concentrations, combined with a fractured rock hydraulic conductivity of 0.5 feet/day results in a calculated initial mass flux of 7,000 gm/day.

Based on  
INITIAL  
DATA

As expected, the calculated mass recovery rates during the initial operation of the line of extraction wells is significantly greater than the estimates of the mass flux prior to initiation of pumping. Much of this initial increase results from the removal of contaminant mass from downgradient of the line of extraction wells. It is also likely that pumping intercepted contaminants from zones that had higher concentrations than those characterized by the monitoring program. These zones could be either in the alluvium or in the underlying fractured bedrock. The fact that there existed higher concentrations in the vicinity of the line of extraction wells is not surprising, given the fact that concentrations of TCE exceeding 1% of its pure-phase solubility have been found in both alluvium and in fractured bedrock, suggesting the presence of nearby DNAPL. In more recent years, however, mass removal has declined to one-half to two times the estimated initial mass flux through the DM-305 through DM-313 line of

extraction wells. Though initial pumping rates (Table 1) were 1.5 times the calculated groundwater flow rate through the line of interception wells prior to pumping, more recent pumping has been less than the flow rates calculated for pre-pumping conditions.

The mass flux calculations would suggest that OU1 is intercepting contaminants originating at the 52nd Street facility. These calculations do not, however, preclude the possibility that contaminants captured by the OU1 wells result from high localized concentrations of contaminants, rather than from the full length and depth of the alluvium and bedrock in the vicinity of OU1, nor do they preclude the possibility that groundwater and solute in fractures not currently tapped by monitoring wells are bypassing OU1 and contributing to downgradient contamination.

## **2.0 CONCLUSIONS**

The body of evidence as a whole suggests that it is likely that the Motorola 52<sup>nd</sup> Street facility will continue to be an ongoing source for at least some contamination west of the capture zone created by the line of extraction wells. This conclusion is based primarily on the observation that analytic solutions indicate incomplete capture of the plume in the alluvium based on existing pumping rates and measured values of hydraulic conductivity. Production well spacings appear to be too large for the measured transmissivity of the aquifer. The density of monitoring wells is insufficient to demonstrate capture of the plume in either the alluvium or the underlying bedrock. The analysis of vertical gradients is inconclusive, though this analysis tends to support continued downward movement of groundwater in portions of the fractured rock system, which in turn suggests that solutes in the fractured rock are not being intercepted by OU1. Calculation of mass recovery rates are inconclusive.

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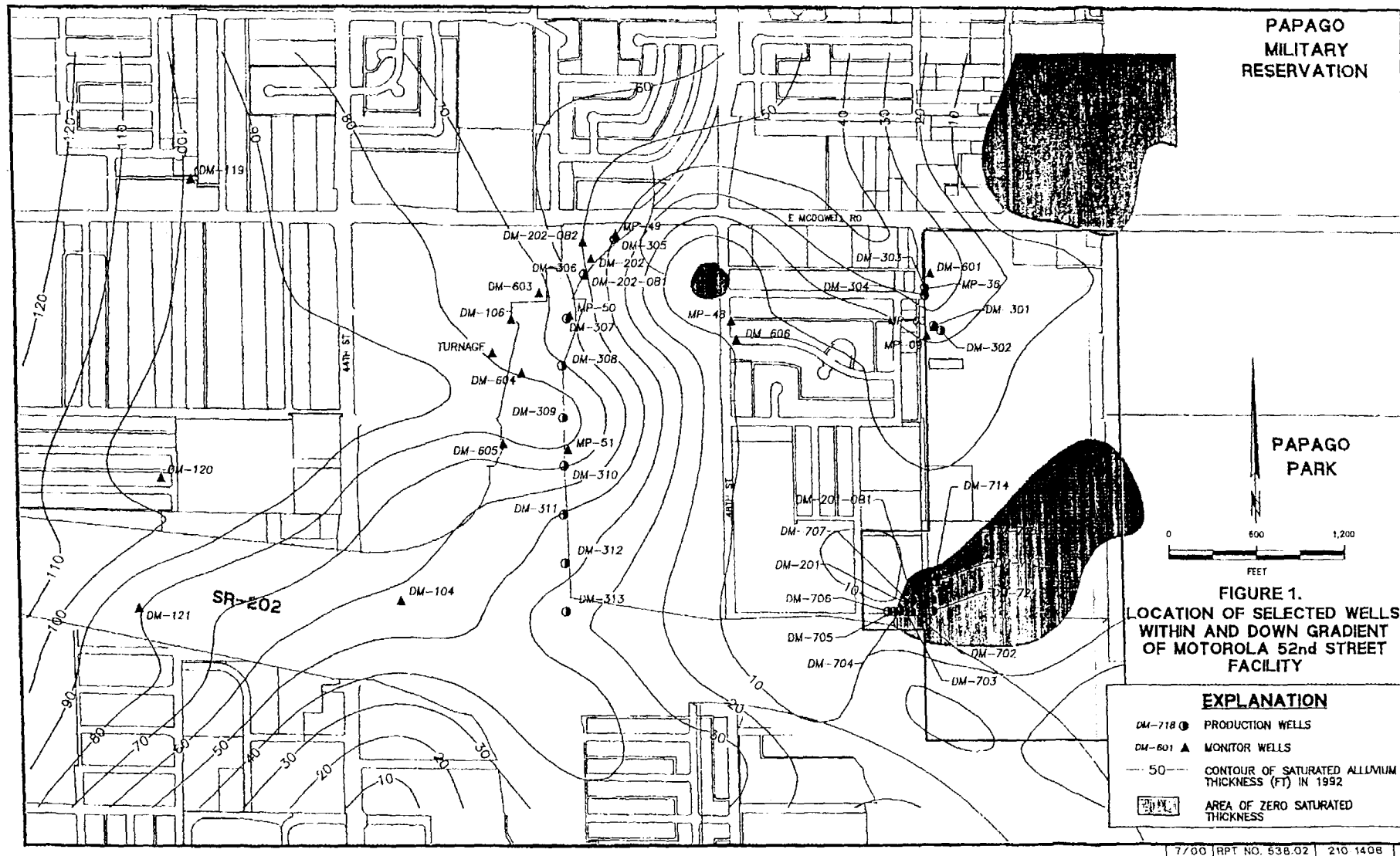
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Table 1a. Total Annual Groundwater Production Reported by Motorola (gallons)

| Well/Year | 1992       | 1993       | 1994       | 1995       | 1996       | 1997       | 1998       | 1999       |
|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| DM-305    | 11,297,376 | 13,164,923 | 25,754,920 | 23,210,692 | 20,426,948 | 18,431,261 | 15,727,810 | 13,311,559 |
| DM-306    | 10,393,586 | 13,480,881 | 24,500,902 | 11,294,529 | 9,485,223  | 9,213,321  | 8,394,157  | 5,916,962  |
| DM-307    | 12,287,415 | 31,595,814 | 40,734,592 | 33,417,870 | 34,598,845 | 28,550,979 | 24,826,853 | 26,821,698 |
| DM-308    | 9,013,605  | 13,340,455 | 32,453,153 | 31,929,810 | 33,547,465 | 35,066,224 | 23,561,982 | 21,447,301 |
| DM-309    | 21,209,913 | 21,590,473 | 47,843,920 | 37,572,250 | 45,980,680 | 39,127,940 | 34,331,480 | 45,731,785 |
| DM-310    | 27,696,793 | 32,692,891 | 67,059,573 | 50,014,058 | 55,039,693 | 56,075,067 | 51,879,384 | 52,505,190 |
| DM-311    | 16,836,735 | 12,813,858 | 31,117,679 | 14,916,153 | 17,174,342 | 11,104,208 | 10,298,274 | 6,415,485  |
| DM-312    | 6,444,515  | 4,388,308  | 12,455,125 | 9,423,812  | 0          | 0          | 0          | 0          |
| DM-313    | 1,454,082  | 658,246    | 0          | 0          | 0          | 0          | 0          | 0          |

Table 1b. Calculated Average Production Rate (gpm) for Periods of Pumping

| Well/Year | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|-----------|------|------|------|------|------|------|------|------|
| DM-305    | 36   | 57   | 49   | 44   | 39   | 35   | 30   | 25   |
| DM-306    | 33   | 59   | 47   | 21   | 18   | 18   | 16   | 11   |
| DM-307    | 39   | 137  | 78   | 64   | 66   | 54   | 47   | 51   |
| DM-308    | 29   | 58   | 62   | 61   | 64   | 67   | 45   | 41   |
| DM-309    | 68   | 94   | 91   | 71   | 87   | 74   | 65   | 87   |
| DM-310    | 89   | 142  | 128  | 95   | 105  | 107  | 99   | 100  |
| DM-311    | 54   | 56   | 59   | 28   | 33   | 21   | 20   | 12   |
| DM-312    | 21   | 19   | 24   | 18   | 0    | 0    | 0    | 0    |
| DM-313    | 5    | 3    | 0    | 0    | 0    | 0    | 0    | 0    |
| Total     | 373  | 624  | 536  | 403  | 411  | 376  | 322  | 328  |



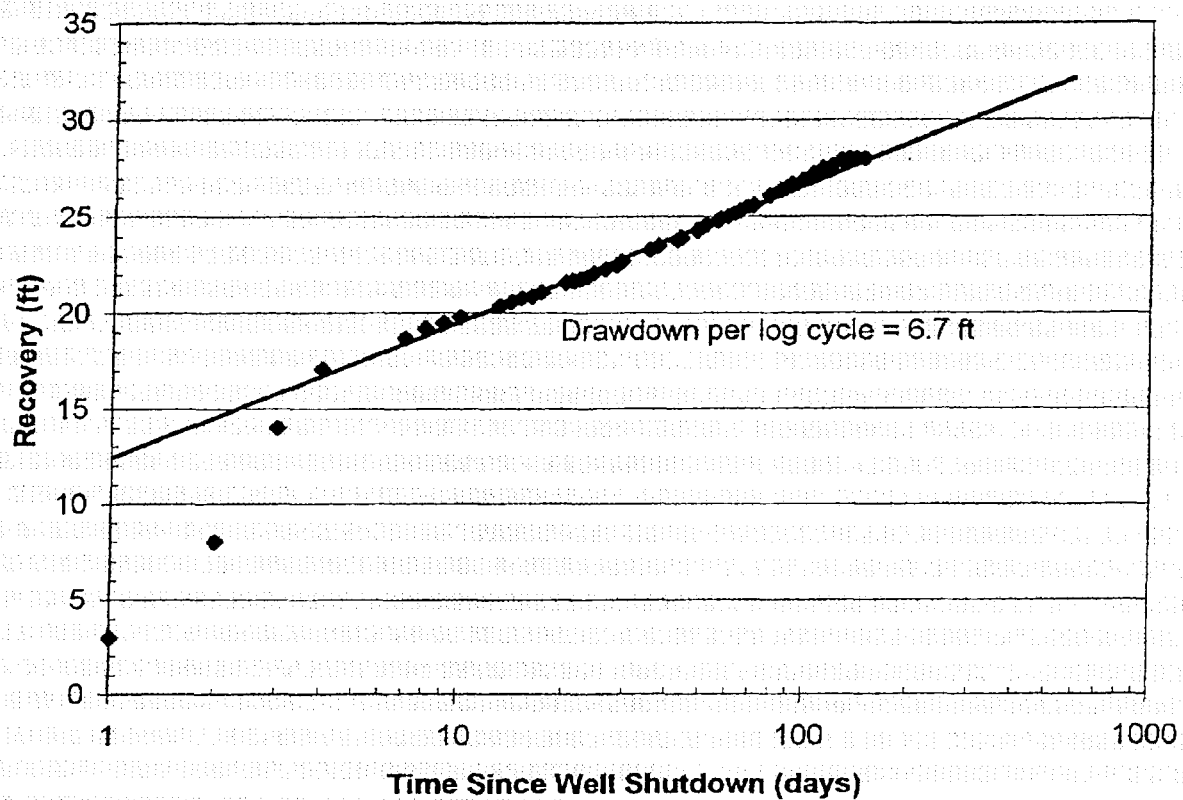
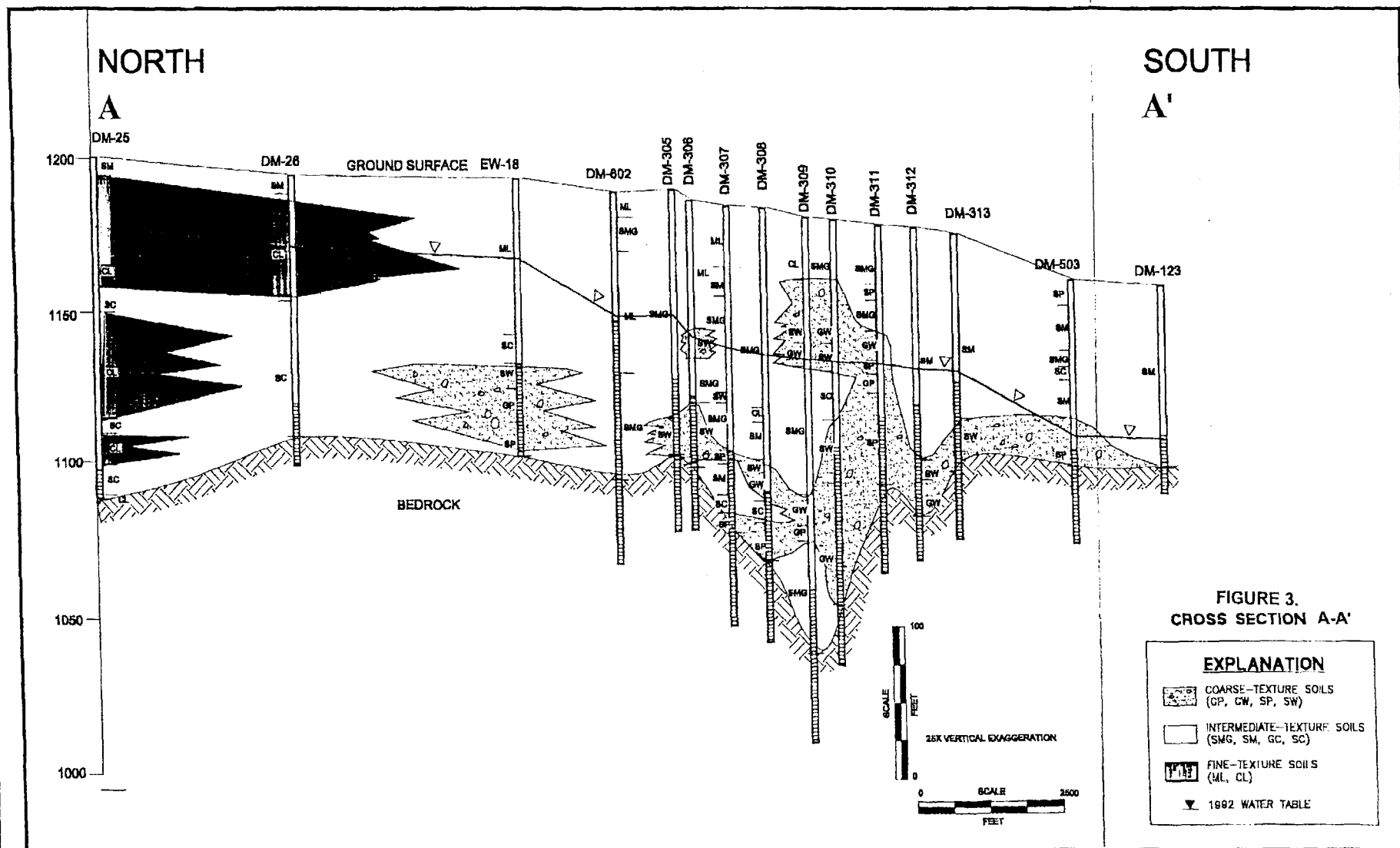


Figure 2. Recovery of groundwater levels in well DM-305 following cessation of pumping in June, 1993.



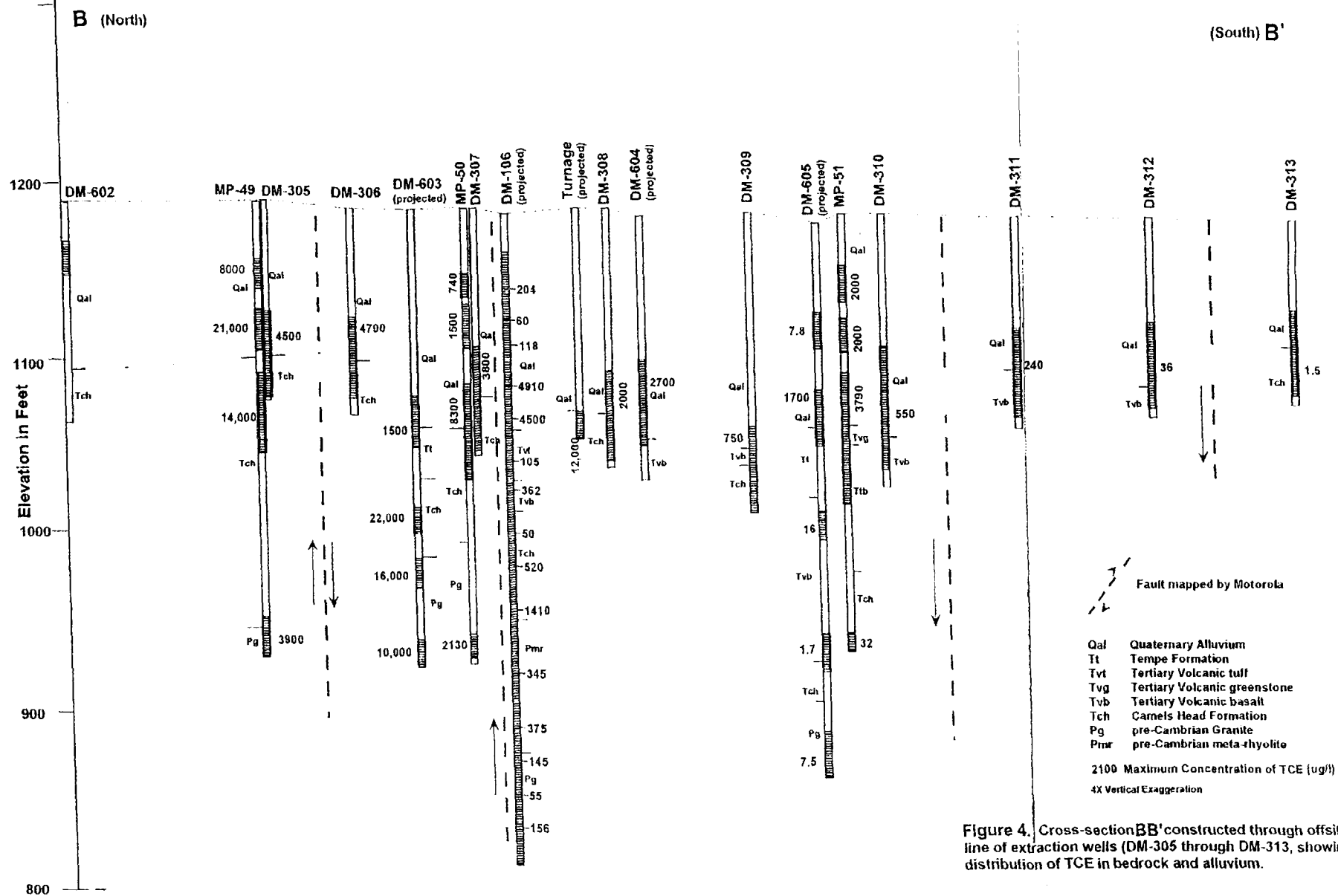


Figure 4. Cross-section BB' constructed through offsite line of extraction wells (DM-305 through DM-313, showing distribution of TCE in bedrock and alluvium.

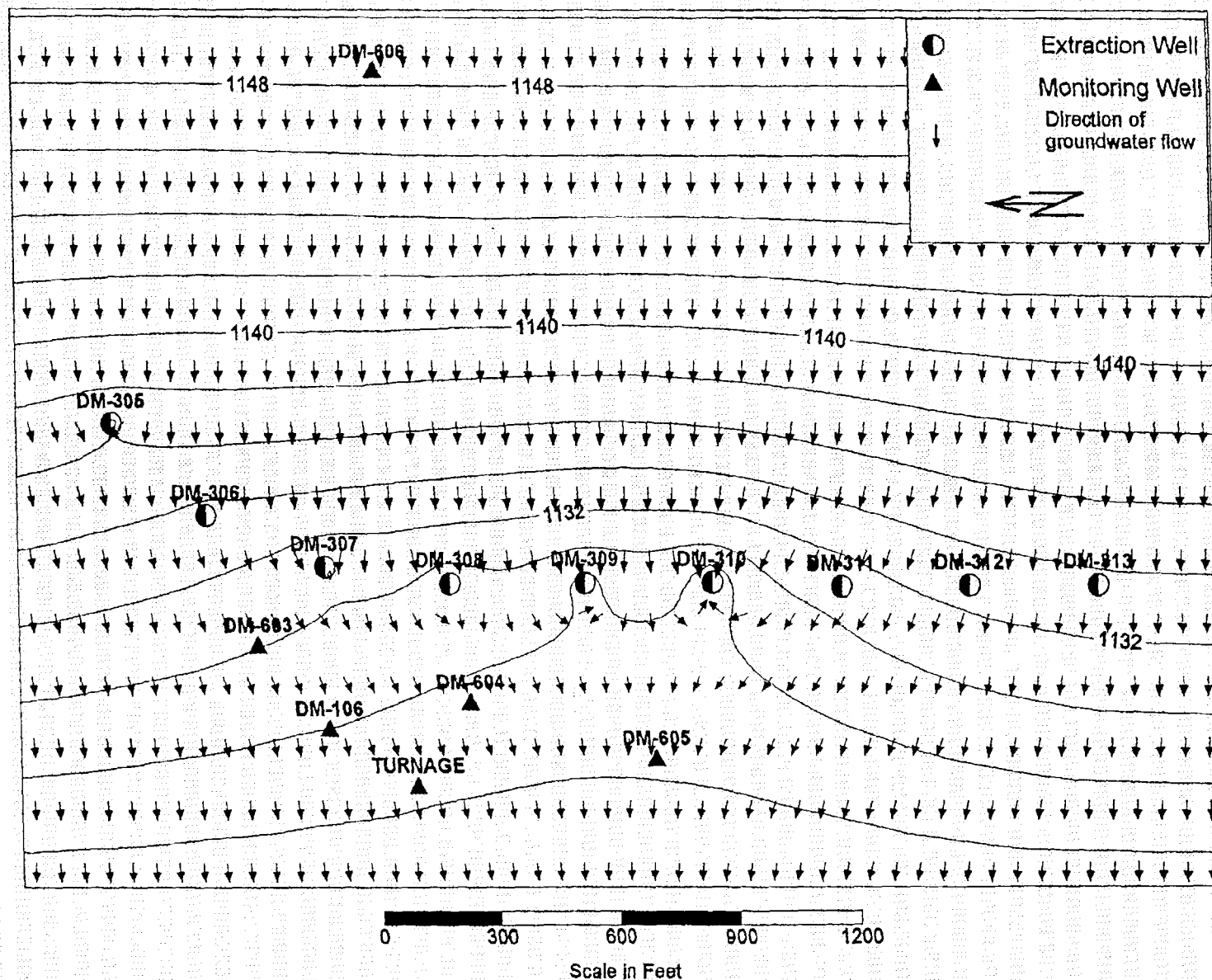


Figure 5. Groundwater flow directions and water level contours calculated using the analytic, steady-state Thiem Equation for an unconfined aquifer near the line of extraction wells using a hydraulic conductivity of 40 ft/day.

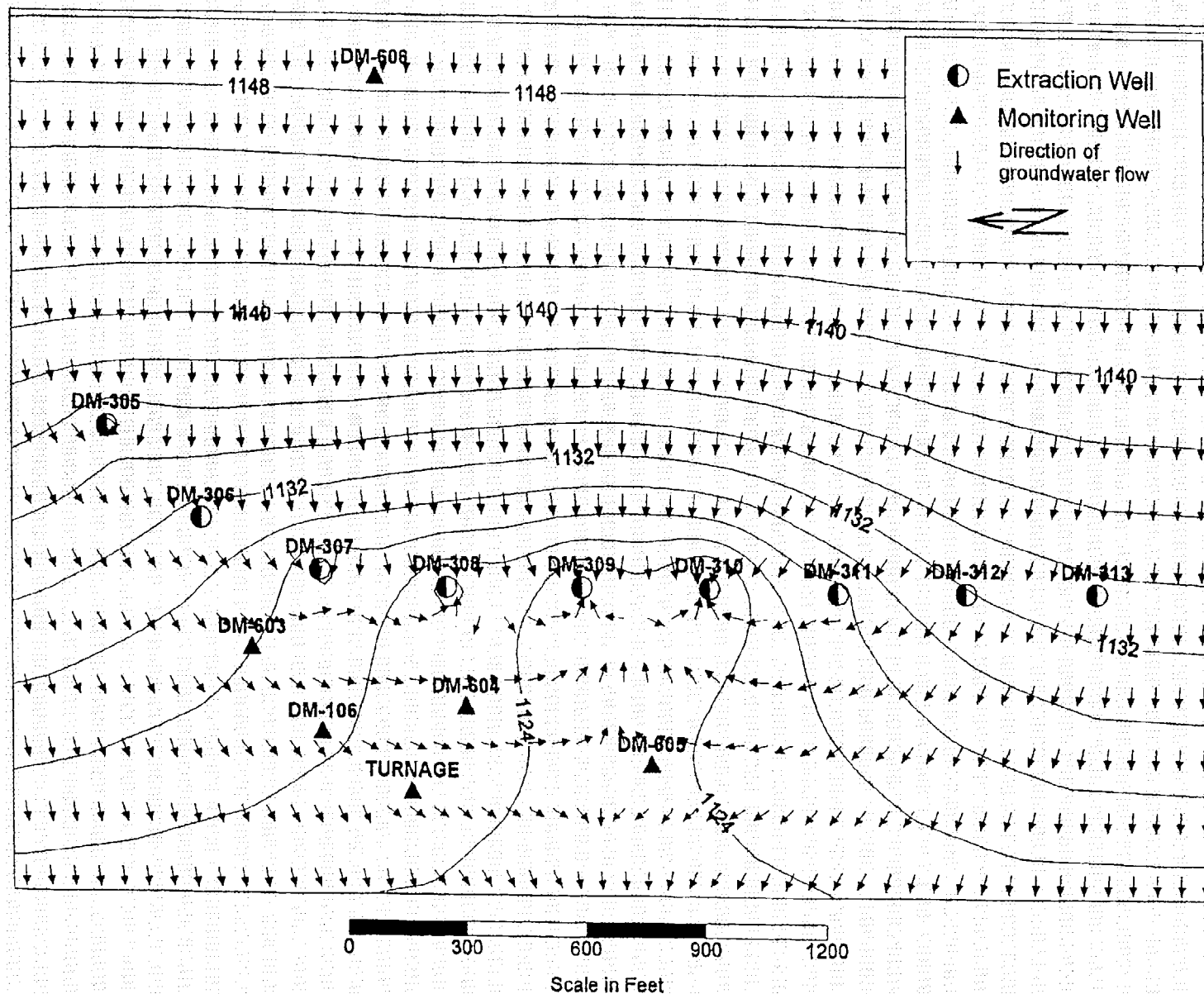


Figure 6. Groundwater flow directions and water level contours calculated using the analytic, steady-state Thiem Equation for an unconfined aquifer near the line of extraction wells using a hydraulic conductivity of 20 ft/day.

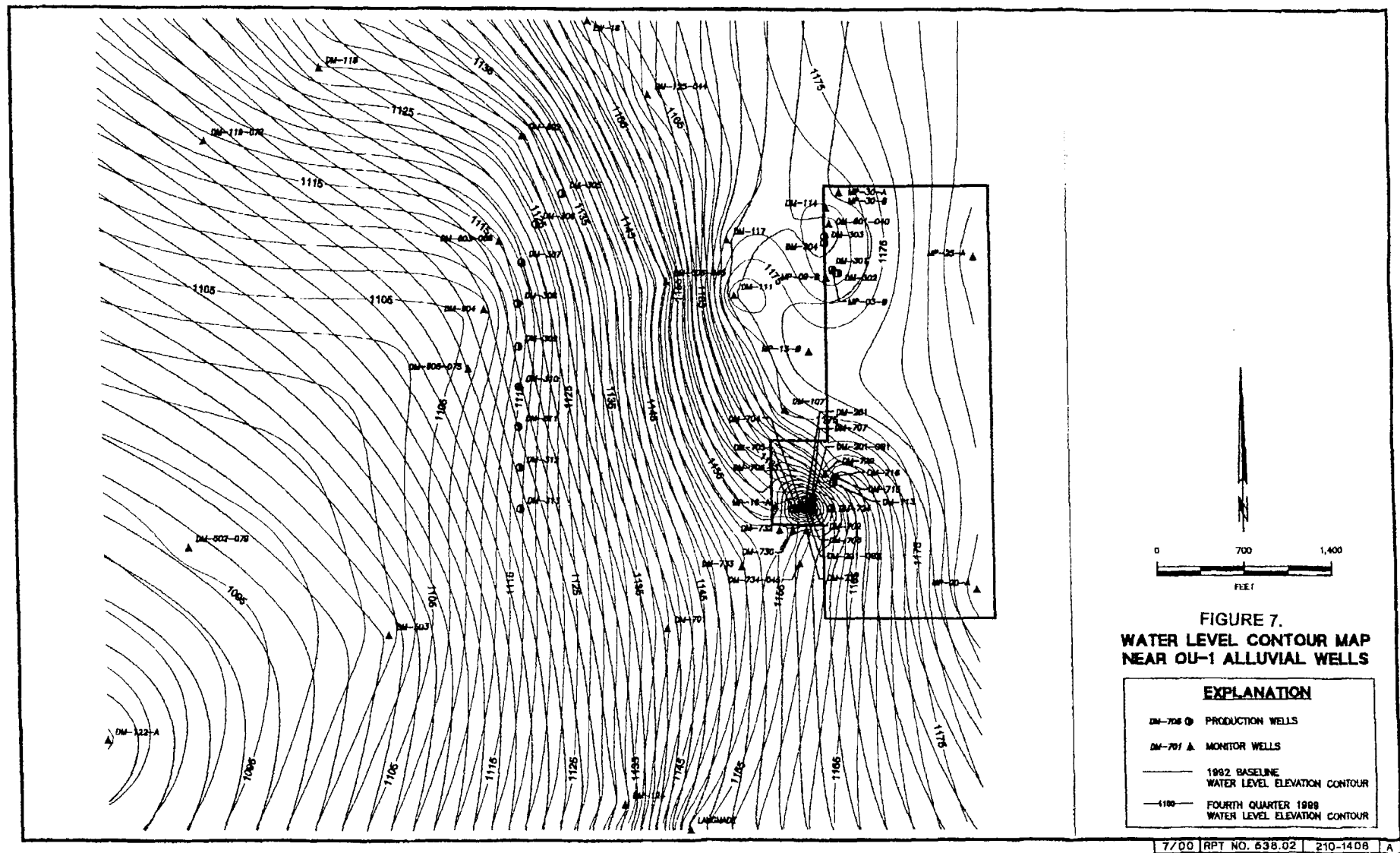


FIGURE 7.  
WATER LEVEL CONTOUR MAP  
NEAR OU-1 ALLUVIAL WELLS

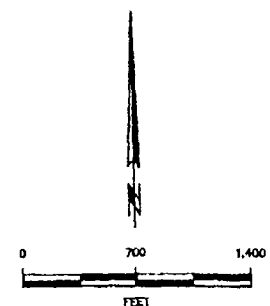
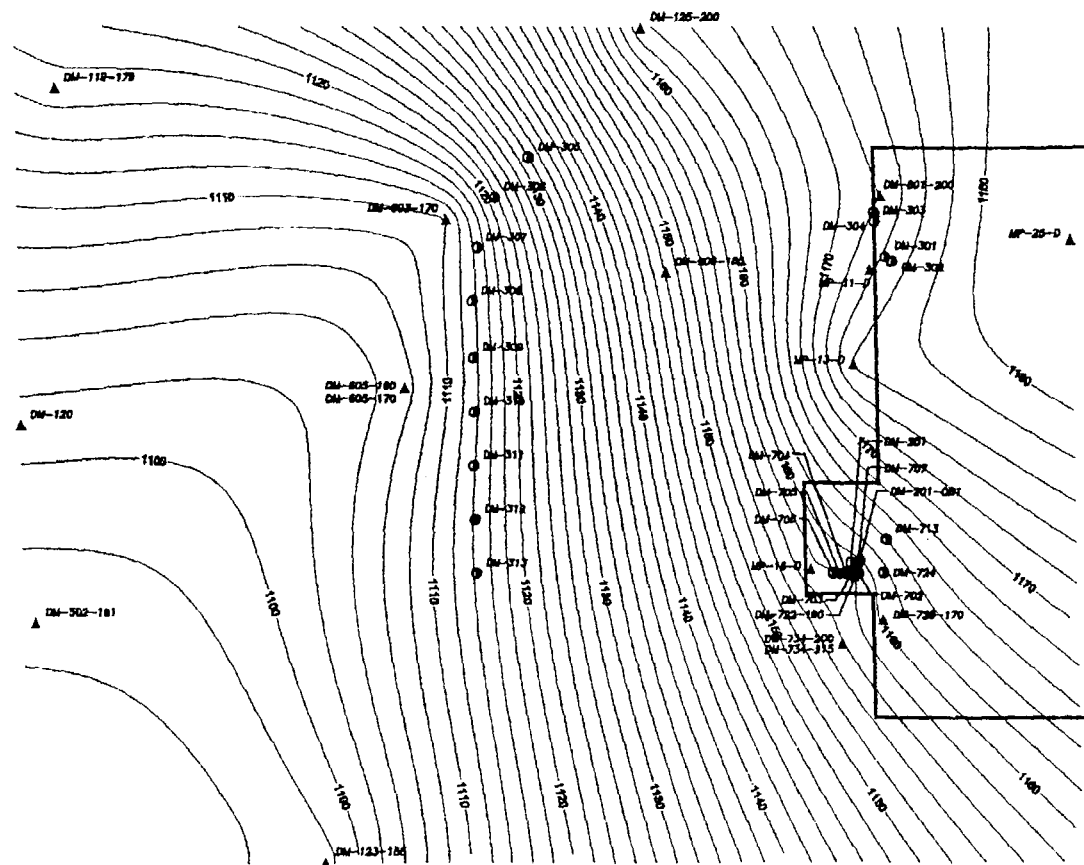


FIGURE 8.  
WATER LEVEL CONTOUR MAP  
BEDROCK AT 1000 FEET  
ELEVATION, 4th QUARTER 1989

**EXPLANATION**

- DM-706 ● PRODUCTION WELLS
- DM-734-715 ▲ MONITOR WELLS
- 1100— WATER LEVEL ELEVATION CONTOUR

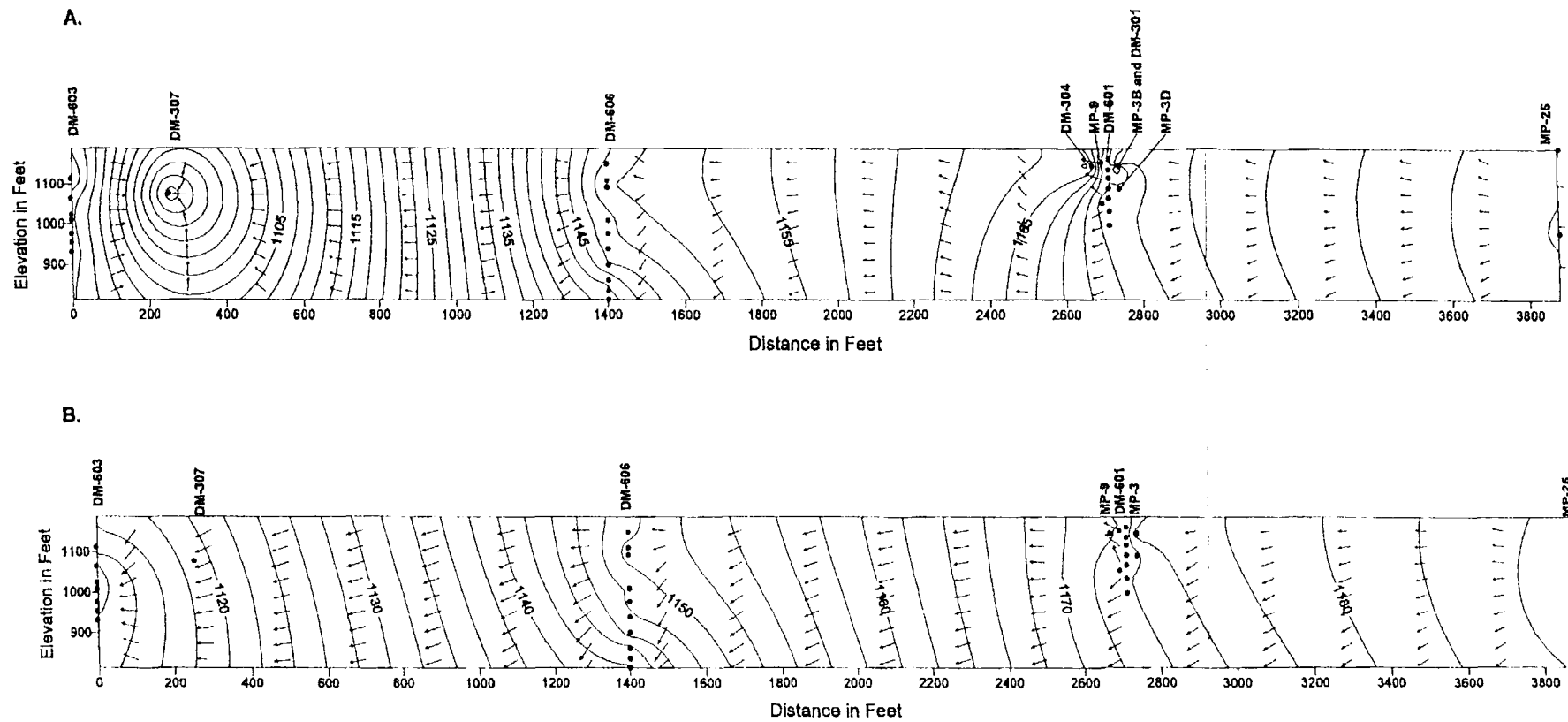


Figure 9. Cross-sectional groundwater flow pattern along a flow line from MP-25 to DM-603 (A) incorporating measured heads at extraction wells DM-301, DM-304, and DM-307, (B) excluding the measured head in extraction wells.

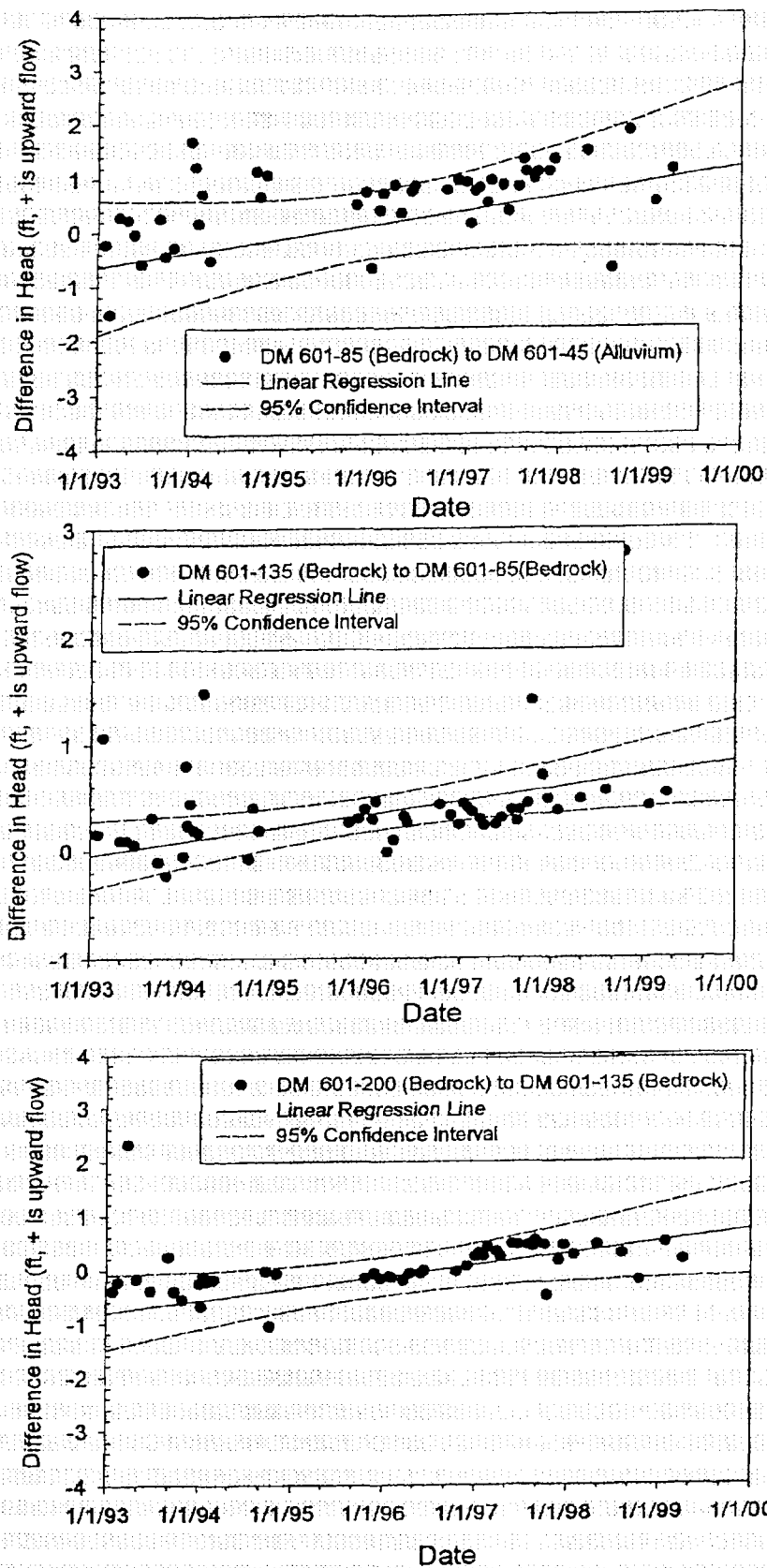


Figure 10. Vertical head differences in well DM-601. Positive differences represent upward vertical gradients.

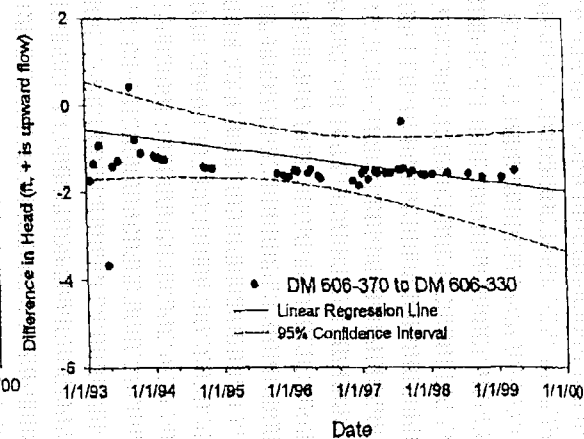
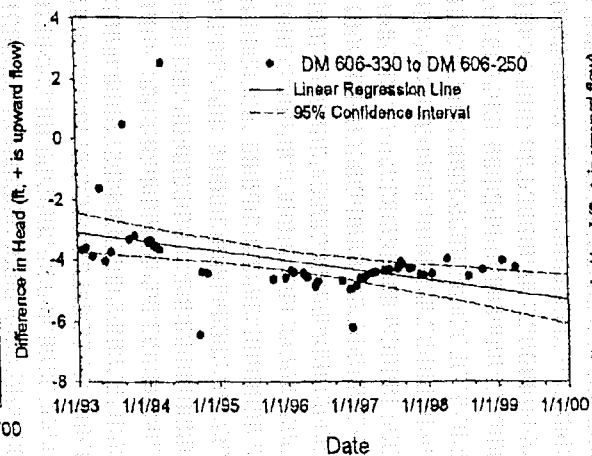
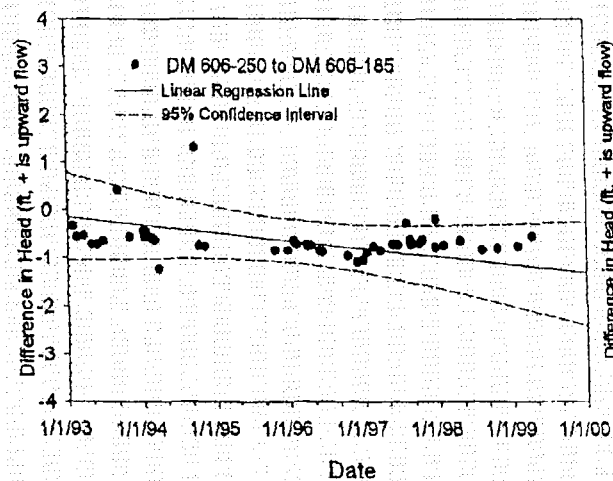
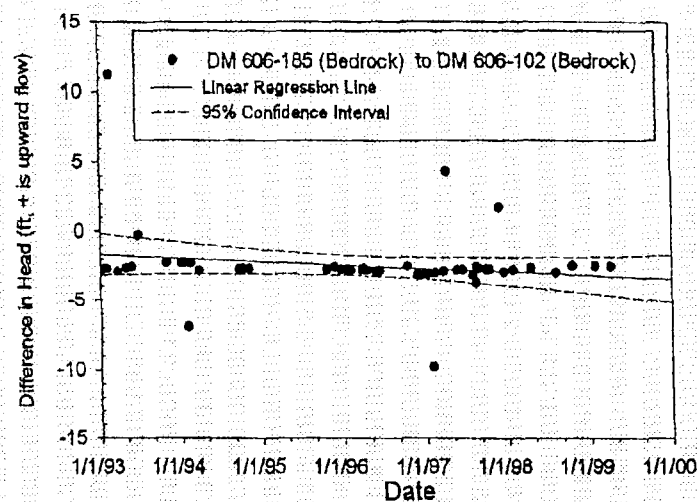
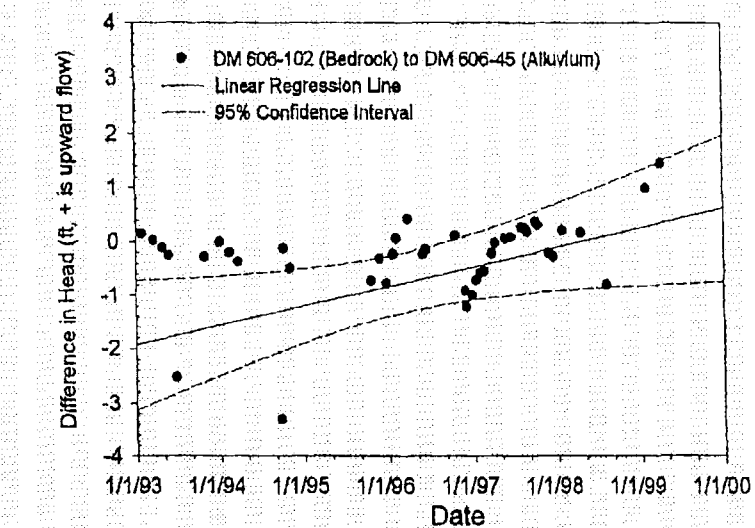


Figure 11. Vertical head differences in well DM-606. Positive differences represent upward vertical gradients.

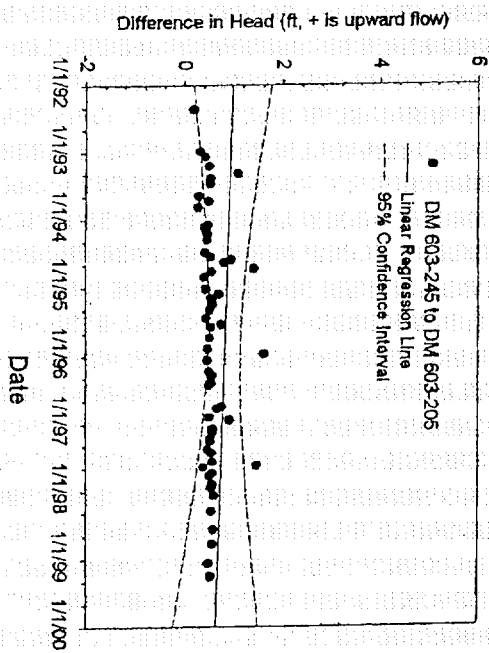
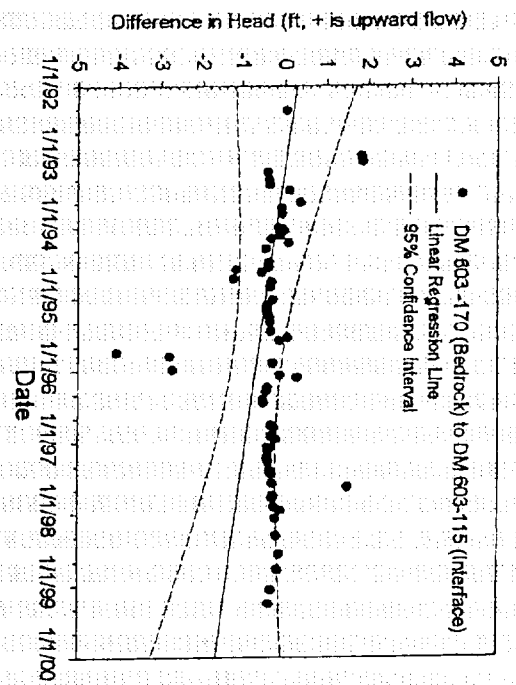
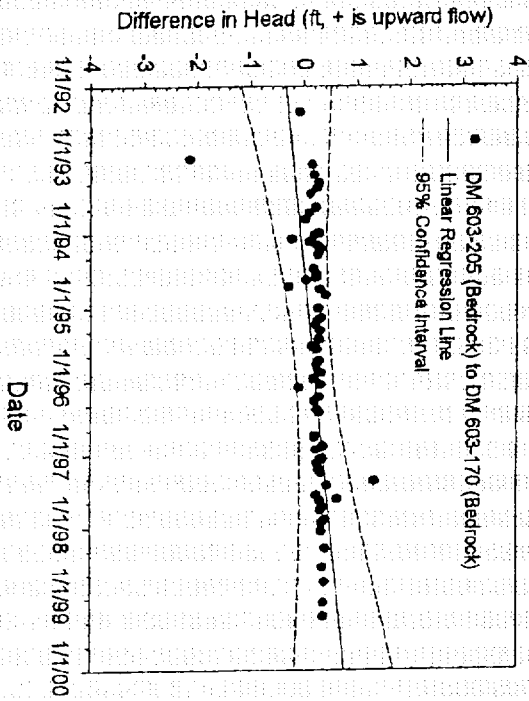
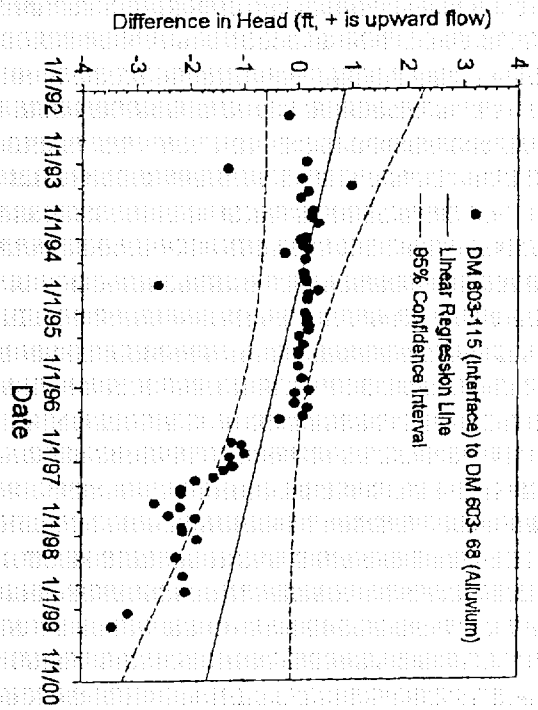


Figure 12. Vertical head differences in well DM-603. Positive differences represent upward vertical gradients.

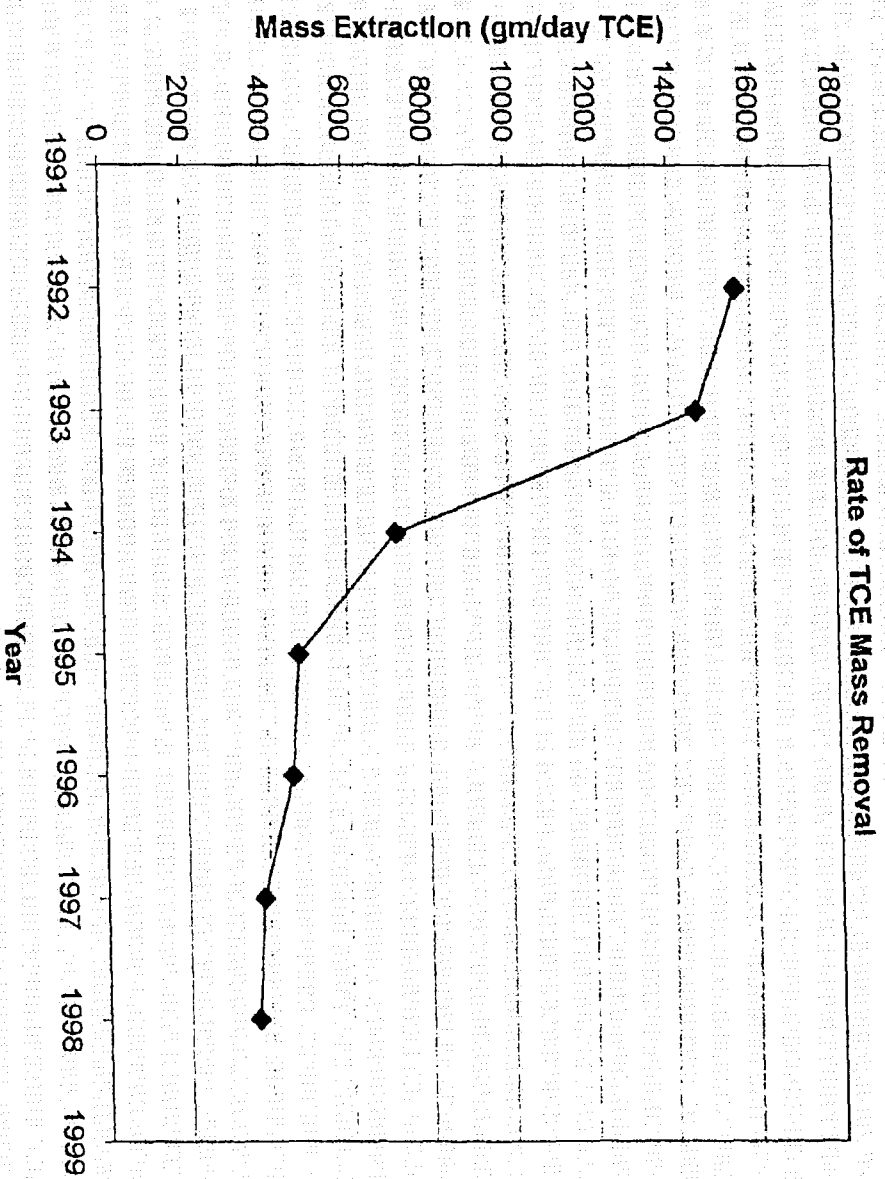


Figure 13. Rate of TCE mass removal from wells DM-305 through DM-313.

## RESUME

**Dr. David Huntley**  
**Professor of Geological Sciences**  
**803 Amiford Dr.**  
**San Diego, CA. 92107**

### EDUCATION

**Bachelor of Arts (Geology), University of California, Santa Barbara, 1972**

**Ph.D. (Geological Engineering), Colorado School of Mines, 1976**

### Ph.D. DISSERTATION

**Ground Water Recharge to the Aquifers of Northern San Luis Valley, Colorado: A Remote Sensing Investigation**

### ACADEMIC EXPERIENCE

**1978-2000: Professor of Geology, San Diego State University.**

**1976-1978: Assistant Professor of Geology, University of Connecticut**

**1998-2000 Principal Investigator, Groundwater Management Planning Study Santee / El Monte Groundwater Basin: Funded by San Diego County Water Authority.**

**1997-99 Principal Investigator, Evaluating the necessity of hydrocarbon removal from source zones: Funded by the American Petroleum Institute.**

**1997-98 Principal Investigator, Numerical modeling of groundwater flow and solute transport within and near the confined disposal facility, North Island, San Diego: Funded by Naval Research and Development (NRAD).**

**1995-96 Principal Investigator, Distribution and hydrogeologic properties of the San Diego Formation, southwestern San Diego County: Funded by San Diego County Water Authority.**

**1992 Principal Investigator, Investigation of hydrocarbon volumes and exaggeration, downtown San Diego: Funded by Transportation Leasing Corporation.**

**1988-1989 Principal Investigator, Interpretive study of the Steamboat Springs, Nevada, geothermal area: U.S. Geological Survey Grant 14-08-0001-A0375.**

- 1987 Principal Investigator, Evaluation of septic system guidelines: California State Water Resources Board Grant 0190-402-158-13.
- 1977-1978: Principal Investigator, Economic Methods to Determine Evaporation Rates and Aquifer Transmissivity for Hydrologic Models: University of Connecticut Research Foundation.
- 1977-1978: Principal Investigator, Determination of Hydrologic Parameters for Glacial Tills in Connecticut: University of Connecticut Institute of Water Resources.
- 1972-1976: Research Assistant, Bonanza Remote Sensing Project; National Aeronautics and Space Administration Grant NGL 06-001-015.

### CONSULTING EXPERIENCE

Dr. Huntley has acted as a consultant in groundwater hydrology since 1976. His clients have included Brown and Caldwell, Dames and Moore, Woodward-Clyde Consultants, Applied Geosciences, Phillips-Reynolds Engineering, Graves Engineering, Science Applications International Corp., ERCE Environmental, Group Delta Consultants, Earth Technology Corporation, United Nuclear Corporation, a variety of law firms, the Sierra Club Legal Defense Fund, the County of Imperial (California), the County of San Diego (California), and Unocal, Shell, Arco, and Chevron Oil Companies. The work has involved assessment of groundwater resources in alluvial, sedimentary, and fractured crystalline rock aquifers, numerical modeling of both groundwater flow and solute transport, assessment of impacts of geothermal development on hot springs and groundwater resources, delineation of radioactive, inorganic, and organic contaminant plumes (ranging in size from localized problems to Superfund sites), and assessment of landfill sites in fractured crystalline rock aquifers. He has served as an expert witness in a variety of legal disputes involving groundwater issues.

### PROFESSIONAL ORGANIZATIONS

American Geophysical Union  
National Water Well Association

### HONORS AND PROFESSIONAL ACTIVITIES

Editor, International Journal of Environmental Forensics (1998 - present).  
Reviewer, Journal of Ground Water (1986 to present)  
Reviewer, Journal of Hydrology (1988 to present)  
Reviewer, Groundwater Monitoring and Remediation (1996- present)  
Reviewer, Environmental Science and Technology (1997 - present)  
Invited Organizer, American Petroleum Institute Workshop, Risk Reduction Strategies for Source Area LNAPL Removal: 1997 Petroleum Hydrocarbons in Groundwater Conference.

**Who's Who in American Universities and Colleges, 1976**

Field trip leader, Hydrogeology Section field trip, 1976 Geological Society of America annual meeting.

Member, San Diego County Ground Water Policy Implementation Guidelines Technical Committee.

American Men and Women of Science, 1979-present.

Invited participant, 1979 Geological Society of America Penrose Conference on the Role of Pore Pressure on Deformation in Geological Processes.

Chairman, San Diego County Technical Committee on Septic Systems and High Ground Water ( American Planning Association 1983 award winner).

Member, San Diego County Project Water Independence Committee.

Invited Speaker, 1990, 1991, and 1992 Research Update on Assessment and Mitigation at Hazardous Waste Sites: Association of Hazardous Materials Professionals and University of California.

## **PUBLICATIONS**

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**MOTOROLA**

June 18, 2001

Ms. Kristina Kommalan  
Remedial Project Manager  
Arizona Department of Environmental Quality  
3033 North Central Avenue  
Phoenix, AZ 85012

Re: Effectiveness of the OU1 Remedy  
52<sup>nd</sup> Street Superfund Site

Dear Ms. Kommalan:

Motorola would like to respond to recent correspondence from Honeywell to ADEQ commenting on the effectiveness of the Operable Unit One system at the 52<sup>nd</sup> Street Superfund site. As you know, we firmly believe that the OU1 system captures VOCs in groundwater from all sources upgradient of the system's capture zone, including sources from the 52<sup>nd</sup> Street facility. This belief is based on many years of evaluation of the system's effectiveness by Dames & Moore and Clear Creek Associates. Each year Motorola demonstrates the system's effectiveness in the annual effectiveness reports and answers all of ADEQ's or EPA's questions regarding its operations to their apparent satisfaction.

Honeywell comments on OU1's effectiveness in a letter to you dated August 7, 2000 and in a handout at a meeting between Honeywell's consultants and ADEQ on February 14, 2001. In the August letter, Honeywell attached an analysis by Dr. David Huntley. Motorola believes that Honeywell's analysis is significantly flawed for the reasons discussed below, and firmly believes that OU1 is capturing groundwater as predicted.

If OU1 were not effective in capturing the sources from the 52<sup>nd</sup> Street facility, there should be evidence of steady or increasing VOC concentrations downgradient of OU1. In fact, the opposite is seen. TCE concentrations are decreasing in all the key indicator wells including DM605 (located west of the extraction wells but inside the capture zone) and DM120 (located downgradient of the capture zone). These results are a strong indication of the overall success of the OU1 system.

Honeywell criticizes Motorola's remediation efforts, but remains silent on its own plans to address the constant to increasing TCE concentrations seen in monitor wells on its 34<sup>th</sup> Street facility. Well ASE-23B has shown increasing VOC concentrations since installed in 1999. TCE concentrations in well ASE-22B have remained in the 300 ug/L to 400 ug/L range since early 1999 (elevated 1,1-DCE and C-1,2-DCE are also observed in this well). Well PL-202N has shown TCE concentrations of approximately 100 ug/l or higher since 1992. And, despite having reported data as early as 1994 that suggest a continuing source nearby (see AlliedSignal, October 1994, Quarterly Water Quality Sampling Report, December 1994), Honeywell has done nothing over all these years to contain or control this source.

Honeywell's criticisms of OU1 are significantly flawed and ignore existing data. They are a mere attempt to deflect ADEQ's attention away from the incompleteness of Honeywell's own site investigation and the failure to identify and implement the necessary source control remedies at its facility. Motorola has been forced to spend significant time and resources in responding to unwarranted criticisms.

Motorola believes that the prior modeling and years of collected data and evaluation confirm that the OU1 system effectively captures all VOCs in groundwater up gradient of the capture zone. Motorola is committed to the success of the OU1 remediation program and has been since the initiation of on-site source control measures in 1986. If there were a legitimate concern, we would address it in a responsible manner. We urge the agency to recognize Honeywell's comments for what they are and give them only the minimal consideration they deserve.

Please feel free to contact me if you would like to discuss our response further or have any other questions.

Sincerely,



Thomas R. Suriano  
Manager, Remediation  
Motorola SPS

cc: John Kivett - ADEQ  
John Kim - Harding ESE  
Nadia Hollan - EPA



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in Groundwater Science*

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June 18, 2001

Mr. Thomas Suriano  
Motorola Inc.  
3102 N. 56<sup>th</sup> Street, M/D 56-128  
Phoenix, AZ 85018

RE: Effectiveness of OU1 System

Dear Tom:

At your request, we evaluated Honeywell comments on OU1's effectiveness contained in a letter to ADEQ dated August 7, 2000, and in a handout at a meeting between Honeywell's consultants and ADEQ on February 14, 2000. Both the letter and the handout contained the analyses of Honeywell's consultant, Dr. David Huntley, and raise similar issues. For your convenience, we've numbered our responses in the manner used in Honeywell's August 7, 2000 letter. Where comments in Honeywell's February 14, 2001 handout repeat the same comments raised in the letter, we address them together. New comments raised by Honeywell in the handout are discussed after responding to the comments in the August 7<sup>th</sup> letter.

On behalf of Honeywell, Dr. Huntley suggests the OU1 system is not entirely effective at containing VOC migration past the Old Crosscut Canal (OCC). He bases this conclusion on several analytical approaches: 1.1) use of an analytical equation to simulate the OU1 extraction system, 1.2) interpretation of water level maps, 1.3) analysis of groundwater flow in a cross-section through the OU1 system, 1.4) evaluation of vertical gradients, and 1.5) evaluation of mass recovery rates. Each of these is addressed below.

1.1 Analytical Solutions: Dr. Huntley's use of an analytical equation oversimplifies a complex hydrogeologic setting. The analytic solution requires the use of simplifying assumptions such as: homogeneous materials of uniform thickness, constant hydraulic conductivity (K), and uniform gradient and flow direction. These assumptions are not appropriate for the complex hydrogeologic setting in the OU1 area and, thus, Dr. Huntley's analysis is flawed. In contrast, Motorola's three-dimensional model developed originally to design the OU1 system uses assumptions appropriate for the OU1 area and has been checked repeatedly against observed changes in water levels around the OU1 system. Motorola's model accurately predicts the observed changes in head associated with the OU1 system (for example, see Operable Unit Effectiveness Report 1994, Dames & Moore, 1995, Appendices D and E).

In his evaluation of pumping test data, Dr. Huntley ignores the fact that the tests were conducted prior to the start of operations of the system and the subsequent lowering of local water levels. The aquifer is not particularly thick at OU1 (ranging from less than 50 feet to about 100 feet prior to OU1 operations); therefore, lowering the water level even slightly has a significant effect on the average transmissivity observed at the extraction wells. In fact, in some areas the alluvium has been dewatered so there can be no flow in the alluvial aquifer (e.g., DM 313). Dr. Huntley's analysis ignores this significant fact.

Step drawdown tests were conducted on each of the OU1 extraction wells and an operational pumping rate developed. If the transmissivities proposed by Dr. Huntley actually existed in the OU1 area, the achievable pumping rates for the extraction wells would reflect it. For example, on p. 4 of Honeywell's letter to ADEQ, Dr. Huntley states:

*[T]he minimum pumping rates [from DM-309 and DM-310] to achieve capture here are in the range of 160 to 400 gpm per well (for transmissivities of 8500 to 21,000 feet<sup>2</sup>/day). These rates have never been approached even by DM-310*

*(Table 13b), despite the fact that it has a specific capacity of 7.5 times that of DM-305.*

The design pumping rate for these wells is actually 130 gpm (Draft Operations Guidance Document for the OU1, Dames & Moore, November 1992). The pumping rates Dr. Huntley cites could never have been achieved because the aquifer has a transmissivity (permeability) that precludes such rates; and, as the OU1 system has operated, pumping rates have been reduced to account for the reduction in transmissivity caused by the lower water table near the system. Dr. Huntley's analysis ignores these changes and his conclusions, therefore, are incorrect.

Dr. Huntley discusses the analytical solutions again in the 4<sup>th</sup> point of discussion (Section 4) in Honeywell's February 14<sup>th</sup> handout. These analytical solutions are overly simplistic and do not accurately simulate conditions in the OU1 area – as can be seen by their overprediction of water levels by 20 to 34 feet. Dr. Huntley's analytical solutions are invalid for the following reasons:

- Analytical solutions require assumptions that result in oversimplification of the hydrogeology in the OU1 area. Unlike a three-dimensional model, an analytical model uses uniform thickness. This is simply not a valid assumption in the OU1 area. Saturated thickness decreases significantly to the east of the extraction wells. Most notably, there is a bedrock ridge in the area that has a significant effect on groundwater flow. Although Dr. Huntley provides an observed saturated thickness map that shows only 0 to 10 feet of saturated thickness immediately east (upgradient) of the OCC, using analytical model assumptions this area in his model would have a saturated thickness of 96 feet (estimated by Clear Creek based on the analytical model assumption of a uniform thickness and the water levels depicted on the eastern boundary of Dr. Huntley's analytical model). Dr. Huntley's analytical model shows all the groundwater coming from this area. We know that in reality very little water flows over or through this bedrock ridge and that most of the groundwater flows around the ridge to the north.

- The analytical model also assumes uniform hydraulic conductivity. Dr. Huntley *assumes* that the transmissivity (T) (the substitute for hydraulic conductivity in the analytic solution) is 3300 ft<sup>2</sup>/day at the OCC extraction wells and everywhere in his analytical model. This value conflicts with the field data in the OU1 area. Motorola calculated transmissivity using step test data collected at wells DM305 through DM312 in April 1992. The T measured in the step tests ranged from 1400 ft<sup>2</sup>/day in DM307 to 3640 ft<sup>2</sup>/day in DM310 with an average of 1780 ft<sup>2</sup>/day. Due to the declining water table, these T values have decreased over time. East of the OCC where the saturated alluvium approaches zero thickness, T also approaches zero. The lower observed conductivity in the OU1 area means that less pumping than postulated by Dr. Huntley is required to achieve capture.
  - Dr. Huntley erroneously assumes static water levels have remained the same since 1992 when in reality water levels measured in several wells outside the area impacted by OU1 showed an average decline of approximately 9 feet since 1992. This regional decline in water levels would reduce T by 18 percent and further reduce the pumping required to achieve capture.
  - Downgradient of OU1, at approximately the Grand Canal and to the west, the upper part of the alluvium is unconsolidated Salt River deposit and the lower alluvium is indurated basin fill. In the OU1 area, recent analysis of alluvium material shows that the entire saturated zone is comprised of indurated basin fill that has a lower K than the Salt River deposit. As water levels decline and de-saturate the indurated basin fill, T would be significantly reduced.
- 1.2 Water level contour maps: It is incorrect to ignore the water levels in the pumping wells as Dr. Huntley does in his evaluation of the operation of OU1. The water levels in the extractions wells are indeed affected by turbulent well loss; however, that loss was quantified in the step drawdown tests and, therefore, can be corrected (see Draft Operations Guidance Document for the OU1, Dames & Moore, November 1992). Dr. Huntley

ignores the pumping wells on his Figures 7 and 8, which make his conclusions invalid. In fact, his conclusions are preordained since he ignores the effect of the extraction wells while attempting to evaluate the effect of those very same wells.

Dr. Huntley repeats his comment about using water levels from production wells in Section 3(B) of the February 14<sup>th</sup> handout. Clear Creek Associates understands the impact of well efficiency on water levels in production wells and takes that into consideration when drawing the contours. Even when corrected for well efficiency, water levels in the production wells still show complete capture. For example, water levels corrected for well efficiency were used to construct the contour map of Fall 2000 water level elevations in the latest OU1 Effectiveness Report (Figure 2.2, OU1 Effectiveness Report, 2000 Operations, Clear Creek Associates, March 2001). This figure clearly shows that the OU1 extraction system at the OCC contains groundwater flowing from any sources upgradient of the capture zone, including those at the 52<sup>nd</sup> Street facility.

In the handout, Dr. Huntley presents maps, with no posted data, of water level contours (that appear to be computer generated) for 1992 Baseline and fourth quarter 1999. He claims the maps show that if water levels in the pumping wells are ignored, the OU1 wells would not contain groundwater at the OCC. However, in generating the maps, Dr. Huntley ignored the water levels for DM312 and DM313, which have not been pumping since 1995 and 1993, respectively. Dr. Huntley, contrary to accepted professional practice, threw out the very data that demonstrate the impact of the extraction wells. If the production wells have no impact, what caused the inflections in the contours in DM602, DM603 and DM605 on the 4<sup>th</sup> Quarter 1999 map? If the production wells are not impacting water levels, why is there over 20 feet of drawdown in monitor wells near the production wells and less drawdown in monitor wells as you get farther away? The actual water elevation data clearly show that the extraction system has a significant effect on water levels. The decreasing VOC concentrations seen

downgradient of OU1 convincingly support the effectiveness of OU1 capture in containing the sources at the 52<sup>nd</sup> Street facility.

- 1.3 Groundwater flow cross section: Dr. Huntley claims that production well data should not be included in water level contouring. Dr. Huntley makes the same error on Figure 9 of the August 7<sup>th</sup> letter that he made on the water level contour maps shown on Figures 7 and 8. It is not reasonable to assume there is no drawdown at an extraction well. Cross section B ignores the drawdown that is and has occurred at DM-307.

In Section 3(A)(ii) of the February 14<sup>th</sup> handout, Dr. Huntley states that production wells should not be included in maps of drawdown since drawdown in a production well is greater than drawdown in the formation adjacent to the production well because of turbulent well loss. We agree that the actual measured water level value in production wells will be deeper than the water level just outside of the well due to well efficiency. This is why Clear Creek Associates does not use the drawdown values from the production wells to contour the drawdown data (as is stated on each drawdown figure in the OU1 Effectiveness reports in the "Notes" box). Calculated drawdown values in the production wells, after correcting for well efficiency, are still significantly greater than in the nearby monitoring wells. It is simply incorrect to disregard the water levels in the extraction wells, as Dr. Huntley has, and then conclude that capture is not achieved. Clear Creek Associates has taken the correct approach by calculating water levels in the extraction wells using the efficiency values and contouring the resultant data. These data clearly demonstrate that capture is achieved by the OU1 system.

- 1.4 Analysis of Vertical Gradients in Discrete Wells: Dr. Huntley claims that the vertical gradients at several wells indicate that OU1 is not providing complete capture. This argument is repeated in Section 5 of the February 14<sup>th</sup> handout. However, Dr. Huntley's conclusion is based on incorrect assumptions.

First, on several of Dr. Huntley's figures (Figures 18-21 of Honeywell's Conceptual Site Model Report (August 14, 2000), and Figure 4 of the August 7, 2000 letter), Westbay wells are incorrectly portrayed as having long screened intervals when, in fact, screened intervals are typically about 15 feet long. Second, Dr. Huntley (p. 8 of the August 7<sup>th</sup> letter to ADEQ) seems to imply that because an upward gradient is observed at DM601 (located several feet from two extraction wells, DM303 and DM304) and not at DM606 (located 1200 feet upgradient of the OU1 offsite system and 1300 feet downgradient of the OU1 onsite system), there is no influence from the offsite system on vertical hydraulic gradients. DM606 is too far from either system to reflect the influence on vertical gradients of pumping of a total of 300 to 500 gpm from the alluvium from distant wells. Drawdown is approximately the same at all ports in DM606 and, therefore, the direction of vertical gradient is not changed; however since water levels in the pumping wells are much lower than in DM606, water will flow hydraulically downgradient and eventually vertically upward to the extraction wells.

In his discussion of vertical gradients in DM 603 (p. 8-9 of the August 7<sup>th</sup> letter to ADEQ), Dr. Huntley ignores the fact that all of the ports in the well simultaneously experienced several feet of drawdown at the startup of the OU1 offsite system (Motorola 52<sup>nd</sup> Street Operable Unit Baseline Report, Dames & Moore April 1992). This indicates that the pumping along the Old Crosscut Canal has a significant and deep influence on groundwater hydraulic pressure beneath the system. Quarterly pressure profiles measured in DM603 and other Westbay monitor wells show that there are slight pressure differences between measurement ports; these differences demonstrate that the seals are intact and the ports are not hydraulically connected within the well bore hole.

Modeling conducted by Dames & Moore showed that the influence of the system extends to a depth in excess of 900 feet, well below the bottom of the monitor wells (Operable Unit Effectiveness Report 1994, Dames & Moore, 1995). With an influence of such magnitude, the small variations in

vertical gradients discussed by Dr. Huntley likely reflect local heterogeneities that do not reflect the overall performance of the system with depth in bedrock.

Because of the low permeability and storage characteristics of the bedrock, the deep vertical influence of the OU1 system is rapidly transmitted to great depth. The rapid response at depth was observed in the bedrock ports of the DM600 series Westbay wells. Similar and immediate responses to drawdown in the alluvium were measured in all Westbay ports in the bedrock. The immediate pressure response (drawdown) observed in these wells over a great vertical extent supports the conclusion that the changes observed in bedrock at the OU1 are caused by the effect of pumping.

Typically, the magnitude of drawdown at all ports in each well is about the same for a given sampling event. This not only demonstrates the influence of pumping at that location, but indicates no change in the vertical component of the gradient at that well. This is consistent with the conclusion that such wells lie within the zone of capture.

The direction that a particle of water will move in a two-dimensional cross section is dependent on the vector sum of the vertical and horizontal components of flow. Figures 2.8, 2.9 and 2.10 of the OU1 Effectiveness Report on 2000 operations (Clear Creek Associates, March 2001) illustrate the change in water level elevations with depth in wells DM603, DM605 and DM606, respectively. As noted above and in the report, the large changes in drawdown at these wells show the significant effects of pumping on all ports in the bedrock. The components of vertical and horizontal flow in DM603 and DM606 are examined in detail in Appendix E of the 1994 MI52 OU Effectiveness Report (Operable Unit Effectiveness Report 1994, Dames & Moore, 1995). Dames & Moore concluded that the horizontal component of flow is dominant and that the pumping at OU1 does not change the direction of the vertical gradient at DM603 and DM606.

One might assume that if vertical gradients do not change to upward in monitor wells near the extraction system, the system is not capturing in bedrock as depicted. This cannot be the case when the horizontal component of flow is considered. Clearly the water levels in all ports in DM603, DM605 and DM606 respond to OU1 pumping. If drawdown at the deepest bedrock port is similar to drawdown in alluvium and shallow bedrock then the drawdown observed in the wells along the OCC will also be similar in bedrock. As seen in Table 2.1 and Figure 2.7 of the March 2001 OU1 Effectiveness Report, the water levels in the pumping wells along the OCC are much lower than the water levels in all of the ports, including the deepest parts, of wells DM603, DM605 and DM606. Therefore, water must eventually flow hydraulically downgradient (but vertically upward) from at least as deep as the deepest measurement ports to the extraction wells. A small, but deeply penetrating upward vertical gradient would be observed in bedrock near the extraction wells, but not necessarily at the monitor wells hundreds of feet away.

It is also important to note that hydraulic effects and mass transport happen at very different rates. As discussed above, the pressure response to pumping is rapidly transmitted in both the horizontal and vertical direction. Therefore, the capture zone begins to develop shortly after pumping is initiated. However, contaminant transport relies on mass displacement and is dependent upon material properties. Thus, the changes in water chemistry in response to groundwater extraction will only be seen over long periods of time.

**1.5 Mass Flux Calculation:** On pages 9 through 11 of the August 7<sup>th</sup> letter to ADEQ, Dr. Huntley concludes that the OU1 system captures more VOC mass than his mass flux calculations would suggest was migrating past the OU1 offsite system prior to operation of the extraction wells. He therefore believes that this analysis indicates the OU1 system “is intercepting contaminants originating at the 52<sup>nd</sup> Street Facility.” But he writes that this conclusion does not “preclude the possibility” that the OU1 system only captures “high localized concentrations of contaminants, rather than the full

length and depth of the alluvium and bedrock.” This line of logic makes no sense. It is unreasonable to conclude that mass flux calculations showing the system is capturing more mass than is calculated somehow support a determination that the extraction system is allowing more mass to escape. Dr. Huntley belies his own conclusions by noting that the mass flux decreases in later years of operation. Contrary to Dr. Huntley's conclusions, this actually demonstrates that the OU1 system is effective and that contaminant concentrations are decreasing in the OU1 area over time.

Dr. Huntley includes a few new or more specific comments on OU1 in the Honeywell February 14, 2001 handout that were not included in the August 7, 2000 letter. Dr. Huntley claims in Section 2 of the handout that “decreasing concentration of solutes in downgradient wells does not demonstrate 100% containment” of VOCs in groundwater from the 52<sup>nd</sup> Street facility. However, he merely speculates that this is happening and provides no facts or data to support his claim. Honeywell's speculations cannot be supported by an objective evaluation of the data.

Elevated Downgradient Concentrations Do Not Indicate Incomplete Capture. The existence of elevated concentrations downgradient of the 52<sup>nd</sup> Street facility in the vicinity of OU1 is consistent with dissolved contamination migrating downgradient from a DNAPL source area and not the failure of the OU1 system to achieve complete capture. Motorola has acknowledged that DNAPL existed below its source area, the courtyard. As indicated by Pankow and Cherry (Dense Chlorinated Solvents and other DNAPLs in Groundwater, Waterloo Press, Portland, Oregon, 1996, p. 76), dissolved plumes originating from DNAPL sources often have weak transverse (or across the dominant flow path) dispersion, resulting in a high-concentration plume core that can persist some distance downgradient of the source. Where there is sufficient density of monitoring points, like downgradient of the 52<sup>nd</sup> Street facility, these high concentrations are often observed. The initial elevated concentrations observed in the vicinity of OU1, and their subsequent decrease over time, are consistent with a dissolved plume developing from an upgradient DNAPL source area that has been completely contained.

Water quality data also confirm the effectiveness of the OU1 extraction system. Concentration versus time series plots from monitoring wells in the vicinity of OU1 show that concentrations decline subsequent to the start up of the offsite OU1 system (see Plate 1, attached).

Drawdown Contours Not Used to Define Capture. In Section 3 of the Honeywell handout, Dr. Huntley criticizes Motorola's use of contouring to demonstrate OU1 capture. He implies in point 3(A)(i) of the handout that Motorola uses drawdown contours to define containment. Contours of apparent drawdown are presented in Motorola's OU1 Effectiveness report every year to show the impact of pumping, **but drawdown is not used to define capture.** The method of determining capture is clearly indicated in the first paragraph of Page 2-1 of each OU1 Effectiveness report which states "Hydraulic capture created by the OU1 extraction wells was evaluated by plotting water level elevations both in plan and section." Although there is a statement made in the OU1 Effectiveness report that because the drawdown at depth in the bedrock is similar in magnitude to drawdown observed in the alluvium that the capture zone at depth would be similar, this in no way implies that Motorola uses drawdown to demonstrate containment. As can be seen in the Fall 2000 Groundwater Contour map (Figure 2.2, OU1 Effectiveness Report, 2000 Operations, Clear Creek Associates, March 2001), the water elevation contours clearly demonstrate a hydraulic gradient directed inwards, toward the extraction wells. Figure 2.7 from the March 2001 OU1 Effectiveness Report shows a cross-section demonstrating that the system has a significant influence at depth. These figures demonstrate that the OU1 system is effective at containing the entire width and depth of the observed plume.

OU1 Model. In Section 3(C) of the Honeywell handout, Dr. Huntley refers to a "numerical model" that "uses a hydraulic conductivity of 20 ft/day." Motorola has developed many models for the 52<sup>nd</sup> Street Superfund site, each one being designed for a specific purpose. We could not find a model developed by either Dames & Moore or Clear Creek Associates that uses a hydraulic conductivity of 20 ft/day for OU1.

The model used to design the OU1 system is presented in the "Hydrologic Report in Support of an Application for a PQGWWP, MI 52<sup>nd</sup> Street Operable Unit," January 1991, and correctly uses 40 ft/day for the hydraulic conductivity in the vicinity of the OCC. This is the value proposed in Honeywell's handout as the value indicated by aquifer tests; thus, Motorola has not "underestimated" hydraulic conductivity as inferred by Dr. Huntley. The results of the modeling indicate that the OU system effectively contains the observed plume (using a hydraulic conductivity of 40 feet/day). Furthermore, the model was rerun in 1995 to evaluate the effect of the regional water level declines and corresponding reduction in pumping rates. The updated runs showed that capture was maintained as is observed from the measured water level data presented in the OU1 Effectiveness Reports.

Observed water levels collected subsequent to OU1 startup have convincingly confirmed that the OU1 model accurately predicted the drawdown in response to OU1 pumping. The graphs of predicted and observed drawdowns were presented in the OU1 Effectiveness reports for several years (see the Operable Unit Effectiveness Reports, Dames & Moore, for 1992 through 1996). Eventually the agencies and Motorola agreed that these graphs were no longer required because it was quite apparent that the model was accurate and the system was achieving containment.

Dr. Huntley contends in Section 3(C)(iii) that modeling the underlying fractured rock system as an equivalent porous medium is not a valid representation of the fracture system at the site. He knows that trying to accurately model the bedrock in the OU1 area as a fractured medium would be nearly impossible. Reasonable simplifying assumptions have to be made when developing a groundwater model. Treating fractured bedrock as an equivalent porous medium is standard industry practice. The best test of a model's predictive capability is to evaluate whether observed data support the model's predictions. A comparison of OU1 model-predicted drawdown in the bedrock to observed OU1 data shows that although the model accurately predicted drawdown in many locations, it actually underpredicted drawdown in several locations, most notably in the deepest Westbay ports. These data confirm the reasonableness of the model and demonstrate that the OU1 system actually has a greater impact at depth than predicted by the model.

Even Slow Decline in Bedrock Concentrations Confirms Capture. In Section 5, Dr. Huntley states that observations in the fractured bedrock at DM603 and DM606 indicate OU1 is locally ineffective at intercepting contaminants. Dr. Huntley's only rationale for this argument is that concentrations observed in the bedrock ports of these wells are not quickly declining. What he fails to understand is that the hydraulic conductivity in the bedrock is so small that particle velocities would be on the order of 5 to 50 feet per year or less. Additionally, the amount of mass that can move through a tight fracture system is minute compared to the amount of VOC mass that can migrate through the more permeable alluvium. At this rate, even after eight years of operation, a water particle may have only moved 40 feet – not enough to have a significant effect on the observed water quality. Nevertheless, concentrations in bedrock have been observed to be slowly declining indicating that the OU1 system is effective at capturing bedrock VOC contamination.

Dr. Huntley's recommendations in the Honeywell February 14, 2001 handout are not based on practical science or common sense. His arguments ignore known data that, if included, would significantly change the conclusions. Each of the recommendations is addressed below:

1. Dr. Huntley recommends that additional production wells be added to decrease well spacing based on his analytical solutions. These analytical solutions are based on assumptions that saturated thickness and hydraulic conductivity are uniform everywhere. As discussed in detail above, these assumptions are not valid in the OU1 area. Upgradient of the OCC the saturated thickness thins to zero. Dr. Huntley also assumes a greater transmissivity than has been demonstrated to exist in the OU1 area. In general, the hydraulic conductivity of the alluvium decreases with depth. Rather than rely on a simplistic solution founded on invalid assumptions, as Honeywell has done, Motorola demonstrates the effectiveness of the OU1 capture zone based on observed field data.
2. Dr. Huntley's recommendation that production wells be placed in high permeability, high concentration zones in fractured bedrock is both

unnecessary and impractical. Based on the extensive field work conducted by Motorola, there are no known high permeability zones in the bedrock that would produce enough water to have a significant influence. While observed concentrations in some bedrock ports are relatively high due to the very low porosity of the bedrock, the total mass of contamination in bedrock is small and technically impracticable to attempt to remediate separately. Over the years Motorola has evaluated and supported research of numerous “innovative technologies,” none of which has been demonstrated to be as effective as hydraulically containing the contamination in the bedrock aquifer. The bedrock and alluvium are hydraulically connected and it has been shown that the capture zone extends below the deepest known contamination.

3. Dr. Huntley recommends the installation of more monitor wells to demonstrate capture, but he ignores available data in making this recommendation. Water levels in the production wells can be used after correcting for well efficiency. Ignoring these data is against standard industry practice.
4. See Recommendation 3, above.
5. It is not clear what current model Honeywell claims is being used to assess the effectiveness of OU1. The effectiveness is based solely on observed water levels and concentration data collected over the past 8½ years of operation. A model was used to design the system and water level data collected subsequent to OU1 startup showed that the model accurately predicted the impact OU1 pumping would have on the aquifer. The results that Honeywell presented of an uncalibrated, oversimplified analytical model based on invalid assumptions should not be given the same weight as a calibrated three-dimensional model or actual field data

In closing, if OU1 were not effective in capturing the sources from the 52<sup>nd</sup> Street facility, there should be evidence of steady or increasing VOC concentrations

downgradient of OU1. Although this is seen in wells on the Honeywell Facility (well PL-202N has shown TCE concentrations of approximately 100 ug/l or higher since 1992), the opposite is true in and downgradient of the OU1 area. Concentrations of VOCs in alluvium at DM602, DM603, DM604 and DM605, all located west of the OU1 extraction wells but inside the capture zone, have continued to fall with the highest concentrations recently measured at less than 10 ug/l (see Figure 3.3 of the OU1 Effectiveness Report, 2000 Operations, March 2001). Monitoring well DM120 is located directly downgradient of the OU1 system and historically had TCE concentrations at approximately 600 ppb and higher (1986-1987). The TCE concentrations in this monitoring well have continually decreased with time, after the OU1 system was turned on in 1992. Recently, the TCE concentrations in DM120 dropped to less than 5 ppb (Figure 3.3, OU1 Effectiveness Report, 2000 Operations, March 2001). These results clearly demonstrate the overall success of the OU1 system.

Clear Creek Associates believes that the prior modeling and years of collected data and evaluation confirm that the OU1 system effectively captures all VOCs in groundwater upgradient of the capture zone. Dr. Huntley's comments in both the Honeywell August 7, 2000 and February 14, 2001 documents are significantly flawed and oftentimes ignore existing data. They should not be considered valid criticisms of the OU1 system.

Please feel free to contact me if you would like to discuss our response further or have any other questions.

Sincerely,



R. Douglas Bartlett, R.G.

Principal



L. Todd Cruse, R.G.

Senior Hydrogeologist



## FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1; SITE INSPECTION CHECKLIST

| I. GENERAL SITE INFORMATION   |  |                                    |  |
|---|--|------------------------------------|--|
| Site Name: Motorola 52nd Street Superfund Site  |  | Date of Inspection: March 20, 2001 |  |
| Location and Region: Phoenix, Arizona   |  | EPA I.D.:                          |  |
| Agency and Consultant Conducting Five-Year Review: ADEQ & Harding ESE   |  | State I.D.:                        |  |
|   |  | Weather Condition: Sunny and Hot   |  |
| Remedy Includes: (Check all that applies)   |  |                                    |  |
| <input checked="" type="checkbox"/> Soil Vapor Extraction   |  |                                    |  |
| <input checked="" type="checkbox"/> Groundwater Pump and Treatment  |  |                                    |  |
| <input checked="" type="checkbox"/> Air Sparging (voluntary)  |  |                                    |  |
| <input type="checkbox"/> Institutional Controls   |  |                                    |  |
| <input type="checkbox"/> Security Access Controls   |  |                                    |  |
| <input type="checkbox"/> Surface Water Collection and Treatment   |  |                                    |  |
| <input checked="" type="checkbox"/> Groundwater Monitoring  |  |                                    |  |
| <input checked="" type="checkbox"/> Treated Effluent Monitoring   |  |                                    |  |
| <input checked="" type="checkbox"/> Other: Beneficial reuse of treated effluent   |  |                                    |  |
|   |  |                                    |  |
|   |  |                                    |  |
| Attachments: <input checked="" type="checkbox"/> Inspection Team <input checked="" type="checkbox"/> Site Map (Figure A)                      |  |                                    |  |
| II. INTERVIEWS  |  |                                    |  |
| 1. Project Manager  |  |                                    |  |
| Tom Suriano   |  | Motorola OUI Project Manager       |  |
| Name  |  | Title                              |  |
|   |  | 02/07/2001                         |  |
|   |  | Date                               |  |
| Interviewed: <input type="checkbox"/> at Site <input checked="" type="checkbox"/> at Office <input type="checkbox"/> by Phone Phone No. _____ |  |                                    |  |
| Interview Summary: <input checked="" type="checkbox"/> Interview Summary Report/Questionnaire Attached  |  |                                    |  |
|   |  |                                    |  |
|   |  |                                    |  |
|   |  |                                    |  |
|   |  |                                    |  |
| 2. O & M Supervisor   |  |                                    |  |
| Larry Wilson  |  | Operations Supervisor              |  |
| Name  |  | Title                              |  |
|   |  | 03/20/2001                         |  |
|   |  | Date                               |  |
| Interviewed: <input checked="" type="checkbox"/> at Site <input type="checkbox"/> at Office <input type="checkbox"/> by Phone Phone No. _____ |  |                                    |  |
| Interview Summary: <input checked="" type="checkbox"/> Interview Summay Report/Questionnaire Attached   |  |                                    |  |
|   |  |                                    |  |
|   |  |                                    |  |
|   |  |                                    |  |
|   |  |                                    |  |

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**II. INTERVIEWS (Continued)**

**3. O & M On-Site Staff** Leo Wilson On-Site Technician 03/20/2001  
Name Title Date

Interviewed: ☒ at Site ☐ at Office ☐ by Phone Phone No. \_\_\_\_\_

Interview Summary: ☒ Interview Summary Report/Questionnaire Attached

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**4. Regulatory Agencies and Local Authorities** (i.e., ADEQ, EPA, City of Phoenix, Maricopa County Department of Environmental Services, etc.). Fill in all that apply.

Agency: ADEQ

Contact: Maria Fant Project Manager 05/31/01  
Name Title Date Phone No.

Interview Summary: ☒ Interview Summary Report/Questionnaire Attached

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Agency: ADEQ

Contact: Bill Ruddiman Department Manager 05/31/2001  
Name Title Date Phone No.

Interview Summary: ☒ Interview Summary Report/Questionnaire Attached

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Agency: ADWR

Contact: Mason Bolitho Manager 05/31/2001  
Name Title Date Phone No.

Interview Summary: ☒ Interview Summary Report/Questionnaire Attached

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**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**II. INTERVIEWS (Continued)**

**4. Regulatory Agencies and Local Authorities (Continued)**

Agency: EPA Region 9

|                              |                        |                   |           |
|------------------------------|------------------------|-------------------|-----------|
| Contact: <u>Nadia Hollan</u> | <u>Project Manager</u> | <u>06/01/2001</u> |           |
| Name                         | Title                  | Date              | Phone No. |

Interview Summary: ☒ Interview Summary Report/Questionnaire Attached

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**5. The Community (i.e., Community Advisory Board; Surrounding Residence; Environmental Conservation Groups)**

Fill in all that apply.

Representing: Former Gateway TAG

|                             |                       |                   |           |
|-----------------------------|-----------------------|-------------------|-----------|
| Contact: <u>John Lemmon</u> | <u>Hydrogeologist</u> | <u>05/30/2001</u> |           |
| Name                        | Title                 | Date              | Phone No. |

Interview Summary: ☒ Interview Summary Report/Questionnaire Attached

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Representing: Don't Waste Arizona

|                               |             |                 |           |
|-------------------------------|-------------|-----------------|-----------|
| Contact: <u>Steve Brittle</u> | <u>None</u> | <u>05/31/01</u> |           |
| Name                          | Title       | Date            | Phone No. |

Interview Summary: ☒ Interview Summary Report/Questionnaire Attached

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Representing: City of Phoenix Council

|                               |                              |                   |           |
|-------------------------------|------------------------------|-------------------|-----------|
| Contact: <u>Cody Williams</u> | <u>Councilman District 8</u> | <u>06/06/2001</u> |           |
| Name                          | Title                        | Date              | Phone No. |

Interview Summary: ☒ Interview Summary Report/Questionnaire Attached

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**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**III. ONSITE DOCUMENT AND RECORDS VERIFICATION**

**1. On-Site Documents**

|  |   |  |   |
|--|---|--|---|
| <input checked="" type="checkbox"/> IGWTP System O & M Manual              | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input type="checkbox"/> Courtyard SVE System O & M Manual                 | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date            | <input checked="" type="checkbox"/> N/A |
| <input type="checkbox"/> SWPL SVE System O & M Manual                      | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date            | <input checked="" type="checkbox"/> N/A |
| <input checked="" type="checkbox"/> Groundwater Monitoring Plan (SAP)      | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date            | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Treated Effluent Monitoring Plan (SAP) | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date            | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Health & Safety Plan                   | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input type="checkbox"/> Ambient Air Monitoring Plan                       | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date            | <input checked="" type="checkbox"/> N/A |
| <input checked="" type="checkbox"/> Storm Water Pollution Prevention Plan  | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Contingency/Emergency Response Plan    | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> As-Built Drawings                      | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |

Remarks Groundwater Monitoring Plan and Treated Effluent Monitoring Plan were not available at the site. Copies of these plans should be on-site.

**2. Permits and Service Agreements**

|   |  |                                     |   |
|---|--|-------------------------------------|---|
| <input type="checkbox"/> Air Permit               | <input type="checkbox"/> Readily Available | <input type="checkbox"/> Up to Date | <input checked="" type="checkbox"/> N/A |
| <input checked="" type="checkbox"/> PQGWWP Permit | <input type="checkbox"/> Readily Available | <input type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input type="checkbox"/> Others _____             | <input type="checkbox"/> Readily Available | <input type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |

Remarks PQGWWP Permit was not available at the site. A copy of this permit should be maintained on-site.

**3. Operations, Maintenance, and Inspection Logs**

|   |   |  |   |
|---|---|--|---|
| <input checked="" type="checkbox"/> IGWTP Daily Activities Logs             | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> IGWTP Monthly Operations Logs           | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> IGWTP Pump Maintenance Logs             | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> IGWTP Blower Maintenance Logs           | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> IGWTP Instrumentation Calibration Logs  | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Peripheral Equipment Maintenance Logs   | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> IGWTP Vent Scrubber Valve Sequence Logs | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> IGWTP Vent Scrubber Valve Sequence Logs | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Extraction Wells Maintenance Logs       | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Carbon Regeneration Logs                | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> GW Monitoring Well Maintenance Log      | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Solvent Recovery and Disposal Logs      | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Liquid Phase Carbon Changout Logs       | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Vapor Phase Carbon Changout Logs        | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input type="checkbox"/> SWPL SVE/AS Maintenance Logs                       | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date            | <input checked="" type="checkbox"/> N/A |

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**III. ONSITE DOCUMENT AND RECORDS VERIFICATION (Continued)**

|  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Courtyard SVE Maintenance Logs    | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date            | <input checked="" type="checkbox"/> N/A |
| <input checked="" type="checkbox"/> SWPPP Inspection Logs  | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> SWPPP Discrepancy Logs | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |

Remarks \_\_\_\_\_

\_\_\_\_\_

**4. Records**

|  |   |  |   |
|--|---|--|---|
| <input checked="" type="checkbox"/> Employee O&M Training Records        | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Employee OSHA Certification Records  | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Site Incident Records                | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> IGWTP Effluent Monitoring Records    | <input type="checkbox"/> Readily Available            | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input type="checkbox"/> Air Emissions Records/Inventories               | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date            | <input checked="" type="checkbox"/> N/A |
| <input type="checkbox"/> SWPL SVE Effluent Monitoring Records            | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date            | <input checked="" type="checkbox"/> N/A |
| <input type="checkbox"/> Courtyard SVE Effluent Monitoring Records       | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date            | <input checked="" type="checkbox"/> N/A |
| <input checked="" type="checkbox"/> Recovered Solvent Disposal Records   | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Liquid Phase Carbon Changout Records | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Vapor Phase Carbon Changout Records  | <input checked="" type="checkbox"/> Readily Available | <input checked="" type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |

Remarks IGWTP effluent monitoring records are kept at GPI main office. This record should  
also be kept at the site.

The carbon changeout records are kept at ON Semiconductor file room (OK).

\_\_\_\_\_

\_\_\_\_\_

**5. Monitoring Data**

|  |   |                                     |   |
|--|---|-------------------------------------|---|
| <input checked="" type="checkbox"/> Groundwater Monitoring Data          | <input checked="" type="checkbox"/> Readily Available | <input type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> Treated Groundwater Effluent Data    | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input checked="" type="checkbox"/> IGWTP Air Emissions Data             | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |
| <input type="checkbox"/> SVE Effluent Emissions Data                     | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date | <input checked="" type="checkbox"/> N/A |
| <input type="checkbox"/> Ambient Air Monitoring Data                     | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date | <input checked="" type="checkbox"/> N/A |
| <input checked="" type="checkbox"/> Waste Analysis/Characterization Data | <input type="checkbox"/> Readily Available            | <input type="checkbox"/> Up to Date | <input type="checkbox"/> N/A            |

Remarks Groundwater Monitoring Data was available at the site but was not up to date.

The groundwater effluent and IGWTP air emissions data were not available on-site. The waste  
analysis data is available at ON Semiconductor's file room; copies of two years of data have been  
requested.

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**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**IV. O & M COST EVALUATION**

**1. O & M Implementation Organization**

- ☐ Agency                      ☐ Agency Contractor  
☒ PRP                              ☒ PRP Contractor  
☐ Other \_\_\_\_\_

**2. O & M Cost Records**

- ☐ Readily Available    ☒ Up to Date                      ☒ Funding Mechanism/Agreement in Place

Original O & M Cost      \$700,000      ☐ Breakdown Attached

Actual Annual O & M Costs for Review Period

|      |                |   |  |
|------|----------------|---|--|
| 1996 | <u>699,000</u> | <input type="checkbox"/> Breakdown Attached | <input type="checkbox"/> Not Available |
| 1997 | <u>897,000</u> | <input type="checkbox"/> Breakdown Attached | <input type="checkbox"/> Not Available |
| 1998 | <u>744,000</u> | <input type="checkbox"/> Breakdown Attached | <input type="checkbox"/> Not Available |
| 1999 | <u>442,000</u> | <input type="checkbox"/> Breakdown Attached | <input type="checkbox"/> Not Available |
| 2000 | <u>265,000</u> | <input type="checkbox"/> Breakdown Attached | <input type="checkbox"/> Not Available |

**3. Identification of Unanticipated or Unusually High/Low O & M Cost During Review Period**

Describe Applicable Cost(s) and Reason(s) for Each Year

Year 1996 No significant difference.

Year 1997 No significant difference.

Year 1998 No significant difference.

Year 1999 Annual O&M cost was lower than original estimate due to reduced staffing and maintenance from reduction of vapor phase carbon regeneration.

Year 2000 Annual O&M cost was lower than original estimate due to reduction of vapor phase carbon regeneration (same as 1999) and further reduction of manpower on-site due to modification of alarm and shut-down system, with a paging system.

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**V. GENERAL SITE CONDITIONS INSPECTION**

1. **Access Restriction** ☒ Applicable ☐ Not Applicable

**Perimeter Fencing** ☒ Good Condition ☐ Bad Condition

Remarks The IGWTP is not completely surrounded by fencing.

**Access Gates** ☒ Good Condition ☐ Bad Condition ☐ Locks in Place

Remarks The access gates are not locked.

**Perimeter Signs** ☒ Good Condition ☐ Bad Condition ☐ Spaced Accordingly

Remarks Signs were present. However, the number of signs was insufficient to completely cover the entire perimeter of the IGWTP fencing. Additional signs are required.

**Evidence of Vandalism/Trespassing** ☒ No ☐ Yes

Remarks \_\_\_\_\_

2. **Institutional Controls** ☐ Applicable ☒ Not Applicable

**Deed Restrictions in Place** ☐ No ☐ Yes ☒ Not Applicable

Remarks \_\_\_\_\_

**Evidence of Land Use Changes On-Site** ☐ No ☐ Yes ☒ Not Applicable

Remarks \_\_\_\_\_

**Evidence of Land Use Changes Off-Site** ☐ No ☐ Yes ☒ Not Applicable

Remarks \_\_\_\_\_

# FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1; SITE INSPECTION CHECKLIST

## VI. IGWTP VISUAL INSPECTION (Refer to Figures A & B)

### 1. Overall Control/Monitoring System

Was system in operation? ☐ No ☒ Yes ☐ Not Applicable

Were all Control/Monitoring System Functioning Properly? ☒ No ☐ Yes ☐ Not Applicable

Remarks Central computer control system monitors and controls all IGWTP systems.

The TOC analyzer was off-line at the time of inspection, with treated water continuing to be sent to the ON-Semiconductor facility.

### 2. Transfer Pumps Station

Are Pumps in Good Condition? ☐ No ☒ Yes ☐ Not Applicable

Are Pump Seals Intact and Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are Pumps Operating Smoothly (no excessive vibrations)? ☐ No ☒ Yes ☐ Not Applicable

Are Pumps Operating Quietly (no excessive noise)? ☐ No ☒ Yes ☐ Not Applicable

Are all Piping Connections and Valves Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are Pumps Operating Controls Functioning Properly? ☐ No ☒ Yes ☐ Not Applicable

Are Pumps Instrumentation Functioning Properly? ☐ No ☒ Yes ☐ Not Applicable

Has Secondary Containment Been Provided? ☐ No ☒ Yes ☐ Not Applicable

Remarks Pump 103 was running at the time of inspection; everything looked good.

### 3. Blowers

Are Blowers in Good Condition? ☐ No ☒ Yes ☐ Not Applicable

Are Blower Seals Intact and Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are Blowers Operating Smoothly (no excessive vibrations)? ☐ No ☒ Yes ☐ Not Applicable

Are Blowers Operating Quietly (no excessive noise)? ☐ No ☒ Yes ☐ Not Applicable

Are all Blower Connections and Valves Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are Blowers Operating Controls Functioning Properly? ☐ No ☒ Yes ☐ Not Applicable

Are Blowers Instrumentation Functioning Properly? ☐ No ☒ Yes ☐ Not Applicable

Remarks Blower was operating at 6200 cfm.

### 4. Feed Water Storage Tanks T-101 and T-102

Tank Capacity 17,000 (Gallons) Construction Material Fiberglass

Are Tanks in Good Condition? ☐ No ☒ Yes ☐ Not Applicable

Are Tanks Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are all Flanges and Valve Stem Seal Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are all Piping Connected to the Tanks Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**VI. IGWTP VISUAL INSPECTION (Continued)**

|   |  |   |  |
|---|--|---|--|
| Are Water Levels Monitored at Each Tank?              | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are Tanks Control Systems Functioning Properly?       | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are Tanks Instrumentations Functioning Properly?      | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Do Tanks have Secondary Containment?                  | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Do Tanks have Leak Detection Systems?                 | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes            | <input type="checkbox"/> Not Applicable            |
| Do Tanks Pipings have Secondary Containment?          | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Do Tanks Pipings have Leak Detection Systems?         | <input type="checkbox"/> No            | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Do Tanks have Appropriate Signs?                      | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are Fugitive VOC Emissions from the Tanks Controlled? | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |

Remarks Leak detection systems have not been provided for tank bottom per  
RCRA Hazardous Waste requirements for tanks. Coating of the main Tanks secondary containment  
system is cracking (coating only, not concrete).

**5. Static Mixer**

|  |                             |   |  |
|--|-----------------------------|---|--|
| Is Mixers in Good Condition?                         | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Mixer Free of Leaks?                              | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Flanges and Valve Stem Seal Free of Leaks?   | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Piping Connected to the Mixer Free of Leaks? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Mixer Control System Functioning Properly?        | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Mixer Instrumentation Functioning Properly?       | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Does Mixer have Secondary Containment?               | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |

Remarks No comments.

**6. Acid Feed System**

|  |                             |   |
|--|-----------------------------|---|
| Tank Capacity <u>2,500</u> (Gallons)                 | Construction Material       | <u>Steel</u>  |
| Is Acid Bulk Tank in Good Condition?                 | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable |
| Is Acid Bulk Tank Free of Leaks?                     | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable |
| Are all Flanges and Valve Stem Seal Free of Leaks?   | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable |
| Are all Piping Connected to the Tank Free of Leaks?  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable |
| Is Tank Control System Functioning Properly?         | <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable |
| Is Tank Instrumentation Functioning Properly?        | <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable |
| Does Tank have Secondary Containment?                | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable |
| Does Acid Unloading Area have Secondary Containment? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable |

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**VI. IGWTP VISUAL INSPECTION (Continued)**

Does Acid Pippings have Secondary Containment? ☐ No ☒ Yes ☐ Not Applicable

Remarks Looked very good.

**7. Liquid Chlorine Feed System**

Tank Capacity 60 (Gallons) Construction Material Poly Tank

Is Chlorine Bulk Tank in Good Condition? ☐ No ☒ Yes ☐ Not Applicable

Is Chlorine Bulk Tank Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are all Flanges and Valve Stem Seal Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are all Piping Connected to the Tank Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Is Tank Control System Functioning Properly? ☐ No ☐ Yes ☐ Not Applicable

Is Tank Instrumentation Functioning Properly? ☐ No ☐ Yes ☐ Not Applicable

Does Tank have Secondary Containment? ☐ No ☒ Yes ☐ Not Applicable

Does Chlorine Unloading Area have Secondary Containment? ☐ No ☒ Yes ☐ Not Applicable

Does Chlorine Pippings have Secondary Containment? ☒ No ☐ Yes ☐ Not Applicable

Remarks Exterior rust on secondary containment sustem. PVC valve looks brittle due to UV rays. Chlorine transfer pipes did not have secondary containment.

The tank's control system and instrumentation could not be evaluated because system was not running.

**8. Air Strippers**

Are Air Strippers in Good Condition? ☐ No ☒ Yes ☐ Not Applicable

Are Air Strippers Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are all Flanges and Valve Stem Seals Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are all Piping Connected to the Strippers Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

Are Control Systems Functioning Properly? ☐ No ☒ Yes ☐ Not Applicable

Are Instrumentation Systems Functioning Properly? ☒ No ☐ Yes ☐ Not Applicable

Are Strippers Vapor Recovery System Operating Properly? ☐ No ☒ Yes ☐ Not Applicable

Do Air Strippers have Secondary Containment? ☐ No ☒ Yes ☐ Not Applicable

Do Air Strippers have Leak Detection Systems? ☒ No ☐ Yes ☐ Not Applicable

Do Air Strippers Pippings have Secondary Containment? ☐ No ☒ Yes ☐ Not Applicable

Remarks Pressure gauge on AS-201 was not functioning. In accordance with RCRA requirements for HW tank standards, a leak detection system may need to be provided for.

**9. Liquid Phase GAC Units**

Are Vessels in Good Condition? ☐ No ☒ Yes ☐ Not Applicable

Are Vessels Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OUI;  
SITE INSPECTION CHECKLIST**

**VI. IGWTP VISUAL INSPECTION (Continued)**

|  |  |   |  |
|--|--|---|--|
| Are all Flanges and Valve Stem Seal Free of Leaks?     | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Piping Connected to the Vessels Free of Leaks? | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Carbon Breakthrough Monitored at Each Tank?         | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are Vessels Control Systems Functioning Properly?      | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are Vessels Instrumentations Functioning Properly?     | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Do Vessels have Secondary Containment?                 | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Do Vessels have Leak Detection Systems?                | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes            | <input type="checkbox"/> Not Applicable            |
| Do Vessels Piping have Secondary Containment?          | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Do Vessels Piping have Leak Detection Systems?         | <input type="checkbox"/> No            | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Are Sample Ports Provided at Each Vessel?              | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |

Remarks No comments.

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**10. Drainage Collection Tank T-501**

Tank Capacity 5,000 (Gallons)

Construction Material Fiberglass

|  |  |   |  |
|--|--|---|--|
| Is Tank in Good Condition?                           | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Tank Free of Leaks?                               | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Flanges and Valve Stem Seal Free of Leaks?   | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Piping Connected to the Tank Free of Leaks?  | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is the Water Level Monitored at the Tank?            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Tank Control System Functioning Properly?         | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Tank Instrumentation Functioning Properly?        | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Does Tank have Secondary Containment?                | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Does Tank have Leak Detection Systems?               | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes            | <input type="checkbox"/> Not Applicable            |
| Does Tank Piping have Secondary Containment?         | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Does Tank Piping have Leak Detection Systems?        | <input type="checkbox"/> No            | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Does Tank have Appropriate Signs?                    | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are Fugitive VOC Emissions from the Tank Controlled? | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |

Remarks In accordance with RCRA HW tanks standards, leak detection may have to be provided  
for.

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**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**VI. IGWTP VISUAL INSPECTION (Continued)**

11. **Process Piping (Liquid)**
- |  |                             |   |  |
|--|-----------------------------|---|--|
| Is Piping in Good Condition?                       | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Piping Free of Leaks?                           | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Flanges and Valve Stem Seal Free of Leaks? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Does Piping have Secondary Containment?            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Does Piping have Leak Detection Systems?           | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
- Remarks All of the process piping is inside the IGWTP secondary containment system which can be inspected for leaks. A leak detection system is therefore not required.

12. **Dehumidifier D-601**
- |  |  |   |   |
|--|--|---|---|
| Is System in Good Condition?                       | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is System Free of Leaks?                           | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Flanges and Valve Stem Seal Free of Leaks? | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is Chilled Water and Stream Line Valves Opened?    | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is the Steam Line Pressure 15 psig?                | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes            | <input type="checkbox"/> Not Applicable |
- Remarks Steam line pressure was at 30 psig, which apparently is not a problem according to the operating supervisor.

13. **Vapor Phase GAC Units**
- |  |                             |   |   |
|--|-----------------------------|---|---|
| Are Vessels in Good Condition?                         | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are Vessels Free of Leaks?                             | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Flanges and Valve Stem Seal Free of Leaks?     | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Piping Connected to the Vessels Free of Leaks? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is Carbon Breakthrough Monitored at Each Vessel?       | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are Vessels Control Systems Functioning Properly?      | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are Vessels Instrumentations Functioning Properly?     | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is Air Pressure Available to all Actuated Valves?      | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is the Steam Pressure to the Vessels 10 psig?          | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are Sample Ports Provided at Each Vessel?              | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
- Remarks Some of the gaskets exteriors are dry rotted, and needs to be replaced.

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**VI. IGWTP VISUAL INSPECTION (Continued)**

**14. Vent-Scrub Carbon System**

|  |                             |   |   |
|--|-----------------------------|---|---|
| Are Vessels in Good Condition?                         | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are Vessels Free of Leaks?                             | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Flanges and Valve Stem Seal Free of Leaks?     | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Piping Connected to the Vessels Free of Leaks? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is Carbon Breakthrough Monitored at Each Vessel?       | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are Vessels Control Systems Functioning Properly?      | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are Vessels Instrumentations Functioning Properly?     | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are Sample Ports Provided at Each Vessel?              | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |

Remarks Vent-Scrub Carbon System take bleed-off from Vapor GAC.

**15. Transfer Tank T-6D1**

Tank Capacity 500 (Gallons)

Construction Material Steel

|  |                             |   |   |
|--|-----------------------------|---|---|
| Is Tank in Good Condition?                           | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is Tank Free of Leaks?                               | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Flanges and Valve Stem Seal Free of Leaks?   | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Piping Connected to the Tank Free of Leaks?  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is the Water Level Monitored at the Tank?            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is Tank Control System Functioning Properly?         | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is Tank Instrumentation Functioning Properly?        | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does Tank have Secondary Containment?                | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does Tank have Leak Detection Systems?               | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does Tank Piping have Secondary Containment?         | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does Tank Piping have Leak Detection Systems?        | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does Tank have Appropriate Sign?                     | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are Fugitive VOC Emissions from the Tank Controlled? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |

Remarks The coating of the secondary containment system is cracking or lifting.

**16. Collection Sumps**

For Each Collection Sump, Where Does the Collected Liquid Go? Liquids from secondary containment system goes to Sump 501 which pumps the liquid to Tank 501. During the inspection water was present in the sump due to recent wash down activities. Condition of the sump could not be inspected.

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**VI. IGWTP VISUAL INSPECTION (Continued)**

Sumps in Good Condition? ☐ No ☒ Yes ☐ Not Applicable

Pumps Functioning Properly? Unknown ☐ No ☐ Yes ☐ Not Applicable

Leak Detection System Provided? Unknown ☐ No ☐ Yes ☐ Not Applicable

Remarks Sump was full of water. Interior could not be visually inspected.

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**17. Electrical Enclosures and Panels**

System(s) in Good Condition? ☐ No ☒ Yes ☐ Not Applicable

System(s) Properly Rated? ☐ No ☒ Yes ☐ Not Applicable

System(s) Functional? ☐ No ☒ Yes ☐ Not Applicable

Remarks \_\_\_\_\_

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**VII. CARBON REGENERATION SYSTEM**

**1. Regeneration Condensate Separator T-603**

Is Separator in Good Condition? ☐ No ☐ Yes ☒ Not Applicable

Is Separator Free of Leaks? ☐ No ☐ Yes ☒ Not Applicable

Are all Flanges and Valve Stem Seal Free of Leaks? ☐ No ☐ Yes ☒ Not Applicable

Are all Piping Connected to the Separator Free of Leaks? ☐ No ☐ Yes ☒ Not Applicable

Is Separator Functioning Properly? ☐ No ☐ Yes ☒ Not Applicable

Is Separator Control System Functioning Properly? ☐ No ☐ Yes ☒ Not Applicable

Is Separator Instrumentation Functioning Properly? ☐ No ☐ Yes ☒ Not Applicable

Does Separator have Secondary Containment? ☐ No ☐ Yes ☒ Not Applicable

Does Separator have Leak Detection Systems? ☐ No ☐ Yes ☒ Not Applicable

Are Fugitive VOC Emissions from the Separator Controlled? ☐ No ☐ Yes ☒ Not Applicable

Remarks Separator has been removed from service. Product recovery is now completed by  
a decanting process.

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# **FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1; SITE INSPECTION CHECKLIST**

## **VII. CARBON REGENERATION SYSTEM (Continued)**

2. **Recovered Solvent Filling and Decanting Area**

|   |                             |   |   |
|---|-----------------------------|---|---|
| Are all Transfer Lines and Connections in Good Condition? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Transfer Lines and Connections Free of Leaks?     | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Flanges and Valve Stem Seal Free of Leaks?        | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Piping Connected to the Tank Free of Leaks?       | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is System's Operating Controls Functioning Properly?      | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is System's Instrumentation Functioning Properly?         | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does System have Secondary Containment?                   | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does System have Leak Detection?                          | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does System Piping have Secondary Containment?            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does System Piping have Leak Detection System?            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are Fugitive VOC Emissions from the System Controlled?    | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |

Remarks    The protective coating of the secondary containment beneath the solvent recovery area was lifting.

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3. **Recovered Solvent Storage**

How Many Full Drums Were Present During Inspection?    One (1) 55-Gallon Drum

Drum Type and Capacity.    55-Gallon, Steel (Liquids)

|   |                             |   |   |
|---|-----------------------------|---|---|
| Are all Drums in Good Condition?              | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Drums Free of Leaks?                  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Are all Drums Appropriately Labeled?          | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does Storage Area have Secondary Containment? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Does Storage Area have Leak Detection?        | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |

Remarks    Looked very good.

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**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**VIII. COURTYARD SVE SYSTEM INSPECTION (Refer to Figure C & D)**

**1. Overall Control/Monitoring System**

Was system in operation? ☒ No ☐ Yes  
 Were all Control/Monitoring System Functioning Properly? ☐ No ☐ Yes ☒ Not Applicable

Remarks System has been shut-down.

**2. Blower**

Is Blower in Good Condition? ☐ No ☒ Yes ☐ Not Applicable  
 Is Blower Seal Intact and Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable  
 Is Blower Operating Smoothly (no excessive vibrations)? ☐ No ☐ Yes ☒ Not Applicable  
 Is Blower Operating Quietly (no excessive noise)? ☐ No ☐ Yes ☒ Not Applicable  
 Is Blower Connection and Valve Free of Leaks? ☐ No ☐ Yes ☒ Not Applicable  
 Is Blower Operating Controls Functioning Properly? ☐ No ☐ Yes ☒ Not Applicable  
 Is Blower Instrumentation Functioning Properly? ☐ No ☐ Yes ☒ Not Applicable

Remarks \_\_\_\_\_

**3. Knockout Drum**

Amount of Liquid Present in the Drum During Inspection \_\_\_\_\_ Gal.  
 Is Drum in Good Condition? ☐ No ☒ Yes ☐ Not Applicable  
 Is Drum Free of Leaks? ☐ No ☒ Yes ☐ Not Applicable  
 Is Drum Connection and Valve Free of Leaks? ☐ No ☐ Yes ☒ Not Applicable

Remarks \_\_\_\_\_

**4. SVE Piping**

Is Piping in Good Condition? ☐ No ☒ Yes ☒ Not Applicable  
 Is Piping Free of Leaks? ☐ No ☐ Yes ☒ Not Applicable  
 Are all Flanges and Valve Stem Seal Free of Leaks? ☐ No ☐ Yes ☒ Not Applicable  
 Are all In-Line Meters Functioning Properly? ☐ No ☐ Yes ☒ Not Applicable

Remarks \_\_\_\_\_

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**VIII. COURTYARD SVE SYSTEM INSPECTION (Continued))**

**5. SVE Wells (See Figure C for Well Locations)**

List Wells Inspected: Well EX-1

|   |                             |   |  |
|---|-----------------------------|---|--|
| Vaults In Place?  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Properly Secured?   | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Vault in Good Condition?                                  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Wellhead in Good Condition?                               | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Wellhead Plumbing in Good Condition?                      | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| System Piping, Valves, and Valve Boxes in Good Condition? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Spare Parts and Equipment Readily Available?              | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**6. Electrical Enclosures and Panels**

|                              |                             |   |  |
|------------------------------|-----------------------------|---|--|
| System(s) in Good Condition? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| System(s) Properly Rated?    | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| System(s) Functional?        | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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 \_\_\_\_\_  
 \_\_\_\_\_

**IX. SWPL SVE/AS SYSTEM INSPECTION (Refer to Figures E & F )**

**1. Overall Control/Monitoring System**

|  |  |                              |  |
|--|--|------------------------------|--|
| Was system in operation?                                 | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Were all Control/Monitoring System Functioning Properly? | <input type="checkbox"/> No            | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> Not Applicable |

Remarks System was not in operation.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**IX. SWPL SVE/AS SYSTEM INSPECTION (Continued)**

2. **Air Compressor and Receiver**
- |   |                             |   |  |
|---|-----------------------------|---|--|
| Is Compressor in Good Condition?                            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Compressor Seal Intact and Free of Leaks?                | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Compressor Operating Smoothly (no excessive vibrations)? | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Compressor Operating Quietly (no excessive noise)?       | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Compressor Operating as Designed?                        | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Compressor Connection and Valve Free of Leaks?           | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Compressor Operating Controls Functioning Properly?      | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Compressor Instrumentation Functioning Properly?         | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_

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3. **Oil/Water Separator**
- |  |                             |   |  |
|--|-----------------------------|---|--|
| Is Separator in Good Condition?                          | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Separator Free of Leaks?                              | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Flanges and Valve Stem Seal Free of Leaks?       | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Piping Connected to the Separator Free of Leaks? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Separator Functioning Properly?                       | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Separator Control System Functioning Properly?        | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Separator Instrumentation Functioning Properly?       | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. **Air Dryer**
- |  |                             |   |  |
|--|-----------------------------|---|--|
| Is Dryer in Good Condition?                          | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Flanges and Valve Stem Seal Free of Leaks?   | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Piping Connected to the Dryer Free of Leaks? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Dryer Functioning Properly?                       | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Dryer Control System Functioning Properly?        | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Dryer Instrumentation Functioning Properly?       | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_

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\_\_\_\_\_

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**IX. SWPL SVE/AS SYSTEM INSPECTION (Continued)**

5. **AS Piping**
- |  |                             |   |  |
|--|-----------------------------|---|--|
| Is Piping in Good Condition?                       | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Piping Free of Leaks?                           | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Flanges and Valve Stem Seal Free of Leaks? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all In-Line Meters Functioning Properly?       | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. **Blower**
- |   |                             |   |  |
|---|-----------------------------|---|--|
| Is Blower in Good Condition?                            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Blower Seal Intact and Free of Leaks?                | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Blower Operating Smoothly (no excessive vibrations)? | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Blower Operating Quietly (no excessive noise)?       | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Blower Connection and Valve Free of Leaks?           | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Blower Operating Controls Functioning Properly?      | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Blower Instrumentation Functioning Properly?         | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_  
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7. **Knockout Drum**
- |  |                             |   |   |
|--|-----------------------------|---|---|
| Amount of Liquid Present in the Drum During Inspection | 85                          |   | Gal.                                    |
| Is Drum in Good Condition?                             | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is Drum Free of Leaks?                                 | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Is Drum Connection and Valve Free of Leaks?            | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_  
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8. **SVE Piping**
- |  |                             |   |  |
|--|-----------------------------|---|--|
| Is Piping in Good Condition?                       | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Piping Free of Leaks?                           | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Flanges and Valve Stem Seal Free of Leaks? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all In-Line Meters Functioning Properly?       | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_  
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**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**IX. SWPL SVE/AS SYSTEM INSPECTION (Continued)**

9.

**GAC Absorber Units**

|  |                             |   |  |
|--|-----------------------------|---|--|
| Are Vessels in Good Condition?                         | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are Vessels Free of Leaks?                             | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Flanges and Valve Stem Seal Free of Leaks?     | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Are all Piping Connected to the Vessels Free of Leaks? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Is Carbon Breakthrough Monitored at Each Vessel?       | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Are Vessels Control Systems Functioning Properly?      | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Are Vessels Instrumentations Functioning Properly?     | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is Air Pressure Available to all Actuated Valves?      | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Is the Steam Pressure to the Vessels 10 psig?          | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Are Sample Ports Provided at Each Vessel?              | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks Four total vessels; two were connected.

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10.

**SVE Wells (See Figure E for Well Locations)**

List Wells Inspected: SASW-7 (SVE/AS combined)

\_\_\_\_\_

|   |                             |   |  |
|---|-----------------------------|---|--|
| Vaults In Place?  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Properly Secured?   | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Vault in Good Condition?                                  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Wellhead in Good Condition?                               | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Wellhead Plumbing in Good Condition?                      | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| System Piping, Valves, and Valve Boxes in Good Condition? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Spare Parts and Equipment Readily Available?              | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_

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# **FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1; SITE INSPECTION CHECKLIST**

## **IX. SWPL SVE/AS SYSTEM INSPECTION (Continued)**

### **11. AS Wells (See Figure E for Well Locations)**

List Wells Inspected: SASW-7 (SVE/AS Combined)

|   |                             |   |  |
|---|-----------------------------|---|--|
| Vaults In Place?  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Properly Secured?   | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Vault in Good Condition?                                  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Wellhead in Good Condition?                               | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Wellhead Plumbing in Good Condition?                      | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| System Piping, Valves, and Valve Boxes in Good Condition? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Spare Parts and Equipment Readily Available?              | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_

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### **12. Electrical Enclosures and Panels**

|                              |                             |   |  |
|------------------------------|-----------------------------|---|--|
| System(s) in Good Condition? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| System(s) Properly Rated?    | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| System(s) Functional?        | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |

Remarks \_\_\_\_\_

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# **FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1; SITE INSPECTION CHECKLIST**

## **X. GROUNDWATER EXTRACTION WELLS INSPECTION**

**See Figure G for Extraction Well Locations.**

List of Wells Inspected: DM 718; DM 714; DM 302; DM 301; DM 306; & DM 311.

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|   |                             |   |   |
|---|-----------------------------|---|---|
| Vaults In Place?  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Properly Secured?   | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Vault in Good Condition?                                  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Wellhead in Good Condition?                               | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Wellhead Plumbing in Good Condition?                      | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| System Piping, Valves, and Valve Boxes in Good Condition? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |
| Spare Parts and Equipment Readily Available?              | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable |

Remarks DM 718 runs in a cyclic mode and produces low water. DM 714 operates at 4 - 5 gpm.  
DM 302 operates at 15 gpm. DM 301 operates at 11 gpm. DM 306 operates in a cyclic mode -  
30-minutes on and 1-hour off due to decrease in water levels. MD 311 operates at 7.6 gpm.

Well DM 306 is off more than it is on, is plume capture at this location occurring?

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**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**XI. GROUNDWATER MONITORING WELLS INSPECTION**

**See Figure G for Groundwater Monitoring Well Locations**

List of Wells Inspected: MP-3 (BCD) - Stainless Steel Constuction; DM 715 - Stainless Steel Construction;  
PZ-10; MP-11 (BCD); and DM 603 (Westbay).

|                           |                             |   |  |
|---------------------------|-----------------------------|---|--|
| Vaults In Place?          | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Vaults Properly Secured?  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Vaults in Good Condition? | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Wells in Good Condition?  | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |
| Bollards Present?         | <input type="checkbox"/> No | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> Not Applicable |
| Routinely Monitored?      | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> Not Applicable            |

Remarks All well were in good condition. However, well MP-11 vault was full of water, which  
should be removed.

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**XII. OVERALL OBSERVATIONS**

1.

**Adequacy of Remedy**

IGWTP & Extraction Wells: Overall the IGWTP systems were in good condition. The secondary containment system provided for the IGWTP, however, needed some coating repairs. In addition, in accordance with RCRA HW tank requirements, leak detection systems may be required for all applicable tank bottoms within the IGWTP. A complete perimeter fencing should also be provided around the IGWTP, with gates that are locked. The TOC analyzer, which was not functioning during the inspection, must be repaired as soon as possible. All of the extraction wells inspected were in good condition. However, there is a concern that the cyclic operation of Well DM 306, may have some impact on the wells ability to contain the plume.

Courtyard SVE System: Since the system is shut-down no observations were made.

SWPL SVE/AS System: Since the system is shut-down, no observations were made.

Groundwater Monitoring: The groundwater monitoring network appears to sufficient to monitor the VOC plume and effects of the extraction wells to the TCE contamination. Except for some minor maintenance issues, no other observations are provided.

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**XII. OVERALL OBSERVATIONS (Continued)**

**1. Adequacy of Remedy (Continued)**

Treated Effluent Monitoring: The effluent monitoring data must be available at the site  
so that inspectors have the opportunity to evaluated the system's performance.

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**2. Adequacy of O & M**

IGWTP & Extraction Wells: All of the IGWTP secondary containment system coat should  
be examine for wear and cracking, and immediately repaired as necessary, there are also other  
minor O&M issues associated with the IGWTP.

O&M activities appear to be completed appropriately for the Extraction Wells.

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Courtyard SVE System: Since the system is shut-down, no observations were made.

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**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**XII. OVERALL OBSERVATIONS (Continued)**

**2. Adequacy of O & M (Continued)**

SWPL SVE/AS System: Since the system is shut-down, no observations were made.

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Groundwater Wells: Except for minor issues, O&M activities appears to be conducted appropriately for the groundwater monitoring wells.

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Effluent Monitoring Systems: O&M activities appears to be conducted appropriately for the effluent monitoring system.

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## **XII. OVERALL OBSERVATIONS (Continued)**

IGWTP & Extraction Wells: The reduction of the operation of extraction well DM 306 could be an indicator of early failure of the containment of the plume at this well location.

**Courtyard SVE System:** No observations.

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**XII. OVERALL OBSERVATIONS (Continued)**

**3. Early Indicators of Potential Remedy Failure (Continued)**

SWPL SVE/AS System: No observations.

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Groundwater Wells: No observations.

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Effluent Monitoring Systems: No observations.

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## XII. OVERALL OBSERVATIONS (Continued)

IGWTP & Extraction Wells: No observations.

**Courtyard SVE System:** No observations.

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**XII. OVERALL OBSERVATIONS (Continued)**

**4. Opportunities for Optimization of O & M/Monitoring Activities (Continued)**

SWPL SVE/AS System: No observations.

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Groundwater Monitoring: No observations

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Effluent Monitoring Systems: No observations.

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**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**SUPPLEMENTAL COMMENTS SHEETS (Attach to appropriate sections)**

During the inspection of the IGWTP, two blending tanks were identified that receives the treated groundwater effluent, prior to use at the facility. Since these tanks receives treated effluent, they were inspected as part of this five-year review. The following are the results of this inspection.

The tanks are located outside of the IGWTP area.

Capacity of each tanks is 10,000 and 15,000 gallons.

Both tanks are constructed of steel, and were in good condition.

No leaks were observed in any of the tanks or associate piping.

The tanks are provided with water level monitoring and automatic shut-off system, that shuts down the IGWTP, when the levels of the tanks reach a certain capacity.

None of the tanks and associated piping have a secondary containment system w/leak detection.

**FIVE-YEAR REVIEW MOTOROLA 52ND STREET OU1;  
SITE INSPECTION CHECKLIST**

**HAND DRAWN DIAGRAM SHEET** (Attach to Appropriate Section of Checklist)





**MOTOROLA**

May 5, 1999

Mr. Harry Chiu  
Maricopa County Division of Air Pollution Control  
1001 North Central  
Suite 201  
Phoenix, AZ 85004

**Re: 52nd Street Superfund Street Operable Unit 1  
Substantive Operating Requirements and Withdrawal of Permits**

Dear Mr. Chiu:

The purpose of this letter is to: 1) update you on Motorola's air quality compliance for the Operable Unit 1 (OU1) system for the 52<sup>nd</sup> Street federal Superfund site which includes the Pilot Treatment Plant (PTP) (previously operated for extracted groundwater treatment and soil vapor extraction (SVE) purposes) and the OU1 groundwater extraction and treatment system, both located on or adjacent to the Motorola facility; and 2) request withdrawal of these two facilities from the 52<sup>nd</sup> Street facility site operating permit because they are exempt from permitting under the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

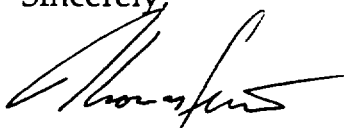
The OU1 extraction system operates on a continuous basis and withdraws approximately 400 gallons per minute of groundwater for treatment and use at the Motorola 52<sup>nd</sup> Street facility. The extracted groundwater is treated using air stripping with vapor-phase granulated activated carbon (GAC) off-gas treatment followed by liquid-phase GAC polishing. The treatment plant is operated to meet the effluent standard specified in Consent Decree CV 89-16807. The PTP is currently inactive.

The OU 1 system is part of a CERCLA remediation effort and qualifies for the exemption under CERCLA which eliminates the requirement to obtain federal, state and local permits. Even though no air permit is required for the OU1 system, both the PTP and the OU1 treatment facility must be operated in accordance with applicable substantive air quality requirements. Motorola continues to operate the OU1 extraction system in accordance with all such requirements. Those requirements and Motorola's methods of compliance are documented in the Operation and Maintenance Manual for the OU 1 system that is on file at the groundwater treatment plant. The PTP is no longer used to treat extracted groundwater and the system is currently off-line while Motorola awaits approval from ADEQ and EPA for closure of the SVE system. Should the agencies require further SVE work at the PTP, Motorola would comply with the substantive air quality requirements for operation of the facility and document such compliance in an appropriate manner.

Air permits were previously obtained from the Environmental Quality & Community Services Agency Division of Air Pollution Control for both the PTP (permit # A9201417) and the OU1 extraction system (permit # A921000). These two permits subsequently became part of the 52<sup>nd</sup> Street facility site operating permit (permit # A8603108). Because the PTP and OU-1 facilities are exempt from permitting under CERCLA and will not be included in any future 52<sup>nd</sup> Street facility air quality permits, we respectfully request that the PTP and OU1 extraction systems be withdrawn from the 52<sup>nd</sup> Street facility site operating permit and regulated pursuant to the CERCLA requirements.


If you have any questions, please contact me at 602/952-3238.

Sincerely,



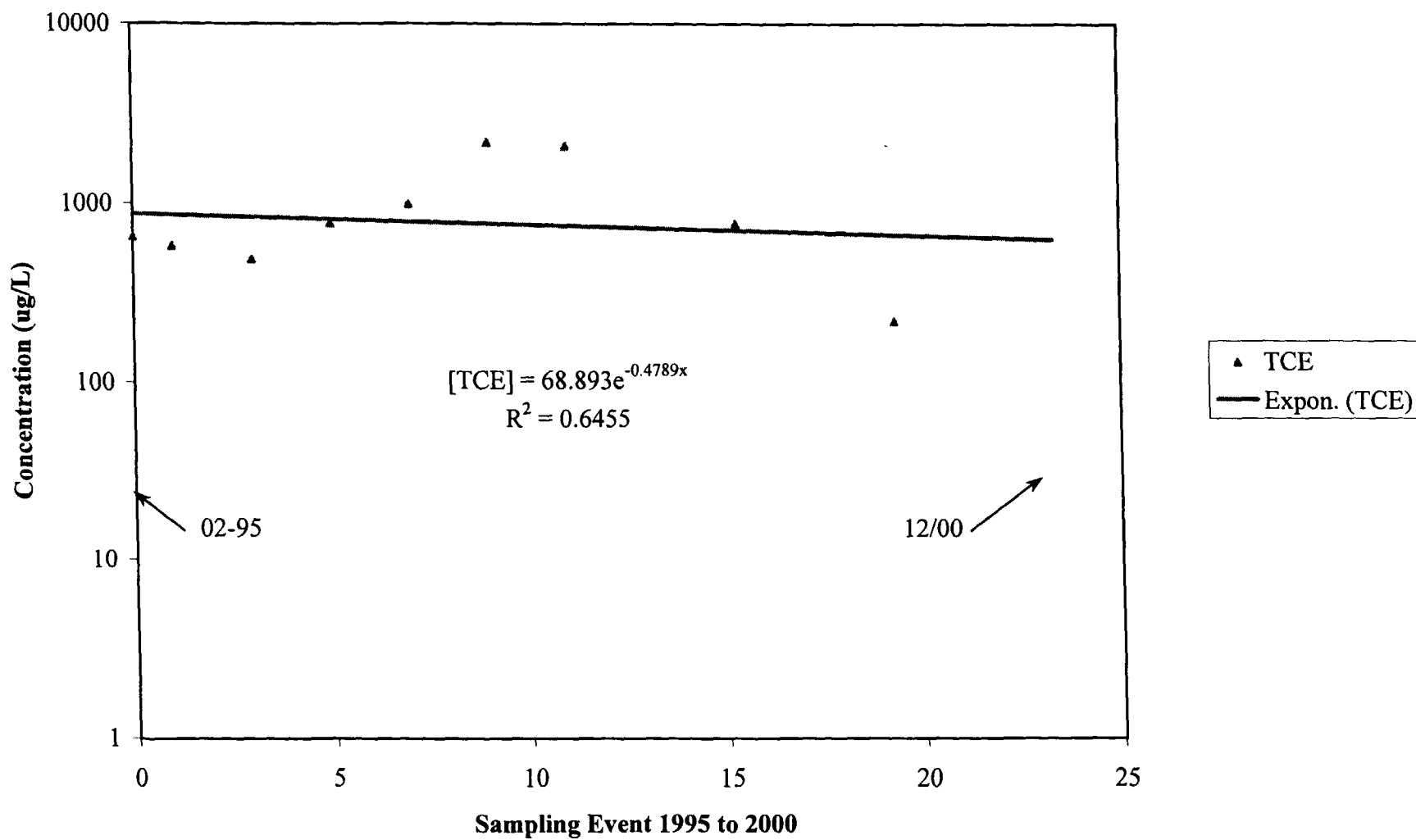
Thomas R. Suriano, Manager  
Remediation & Due Diligence

cc: Robert F. Copple, Esq. - Motorola  
Maria Fant - ADEQ  
Donna LaFlamme - Motorola  
Steve Lewis - GPI  
Sharen Meade - Dames & Moore

TO: THOMAS R. SURIANO  
FROM: HARRY H. CHIU  
DATE: MAY 13, 1999  
YOUR REQUESTS FOR CLOSE-OUT TWO  
PERMITS; A 9201417, A921000  
ARE APPROVED.  


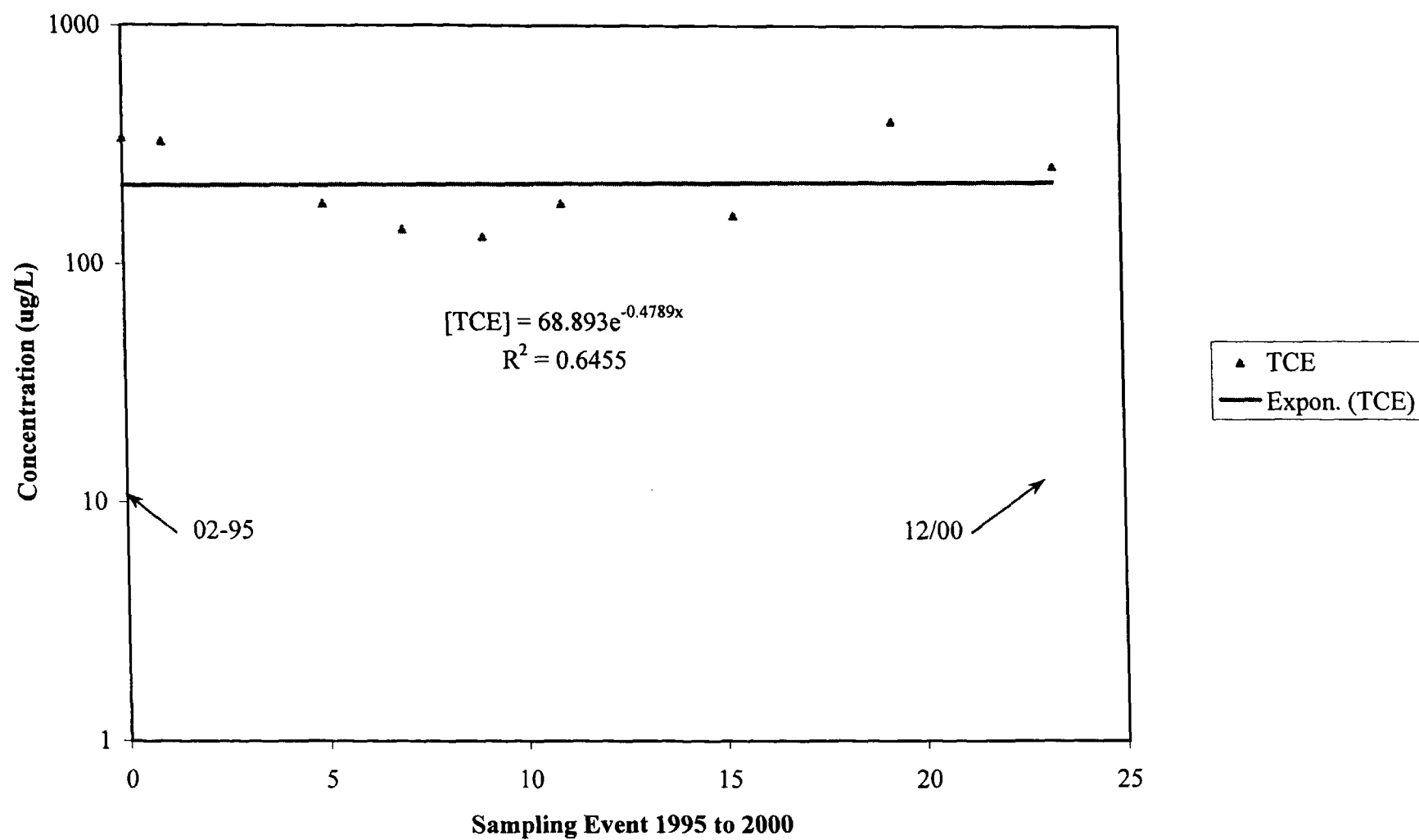
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# Appendix Concentrations of TCE in DM301 Over Time

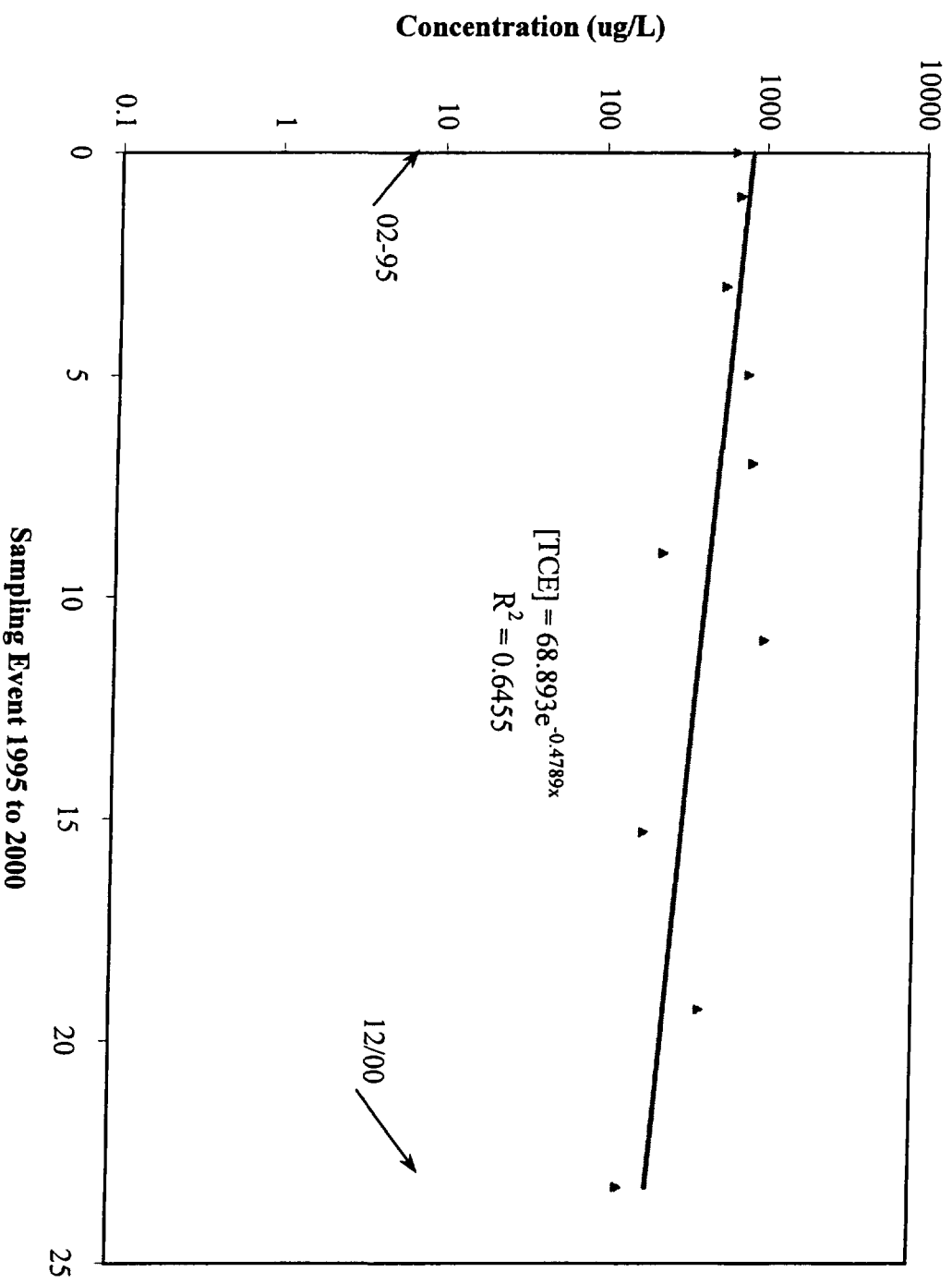


# Appendix

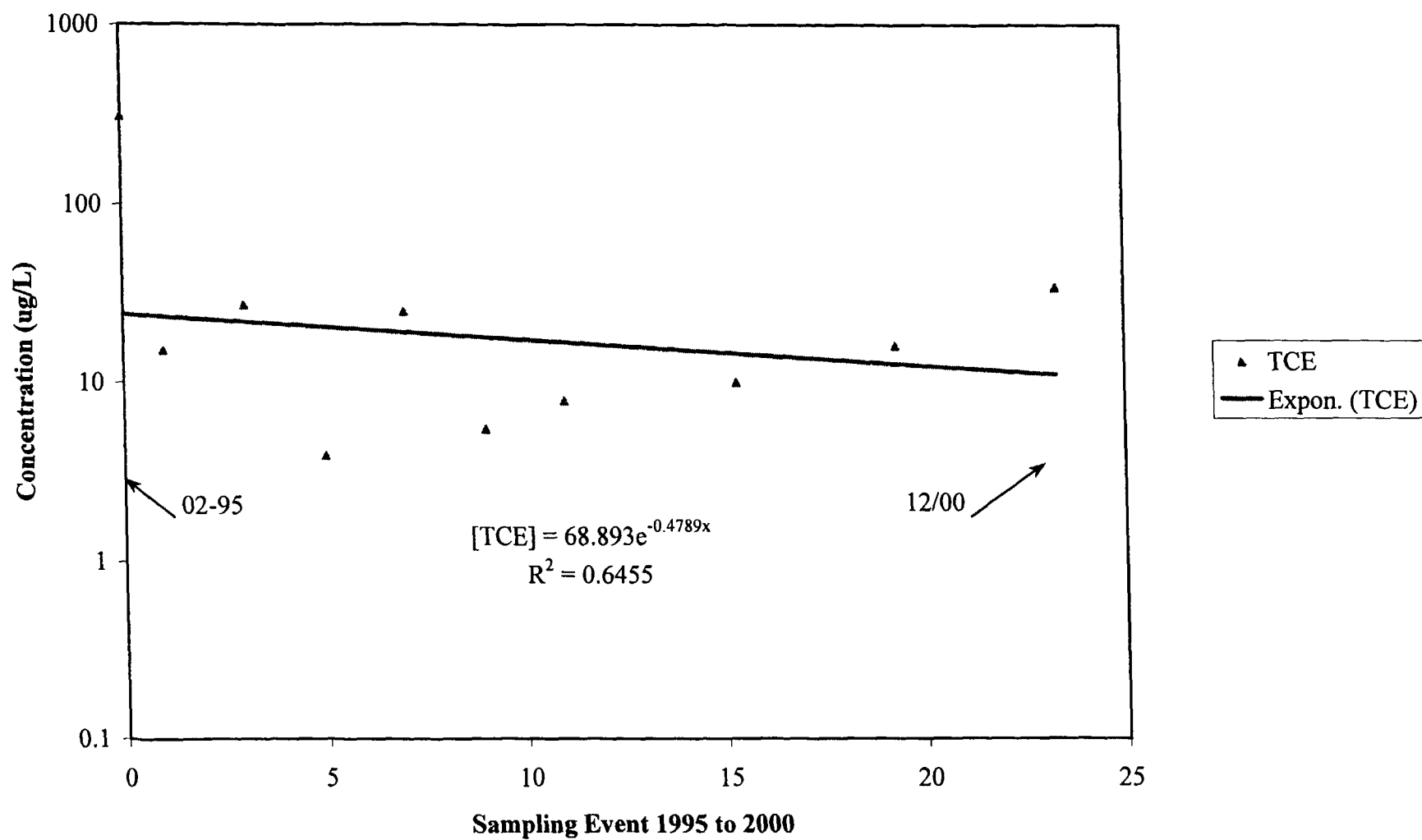
## Concentrations of TCE in DM304 Over Time



# Appendix Concentrations of TCE in MP11B Over Time

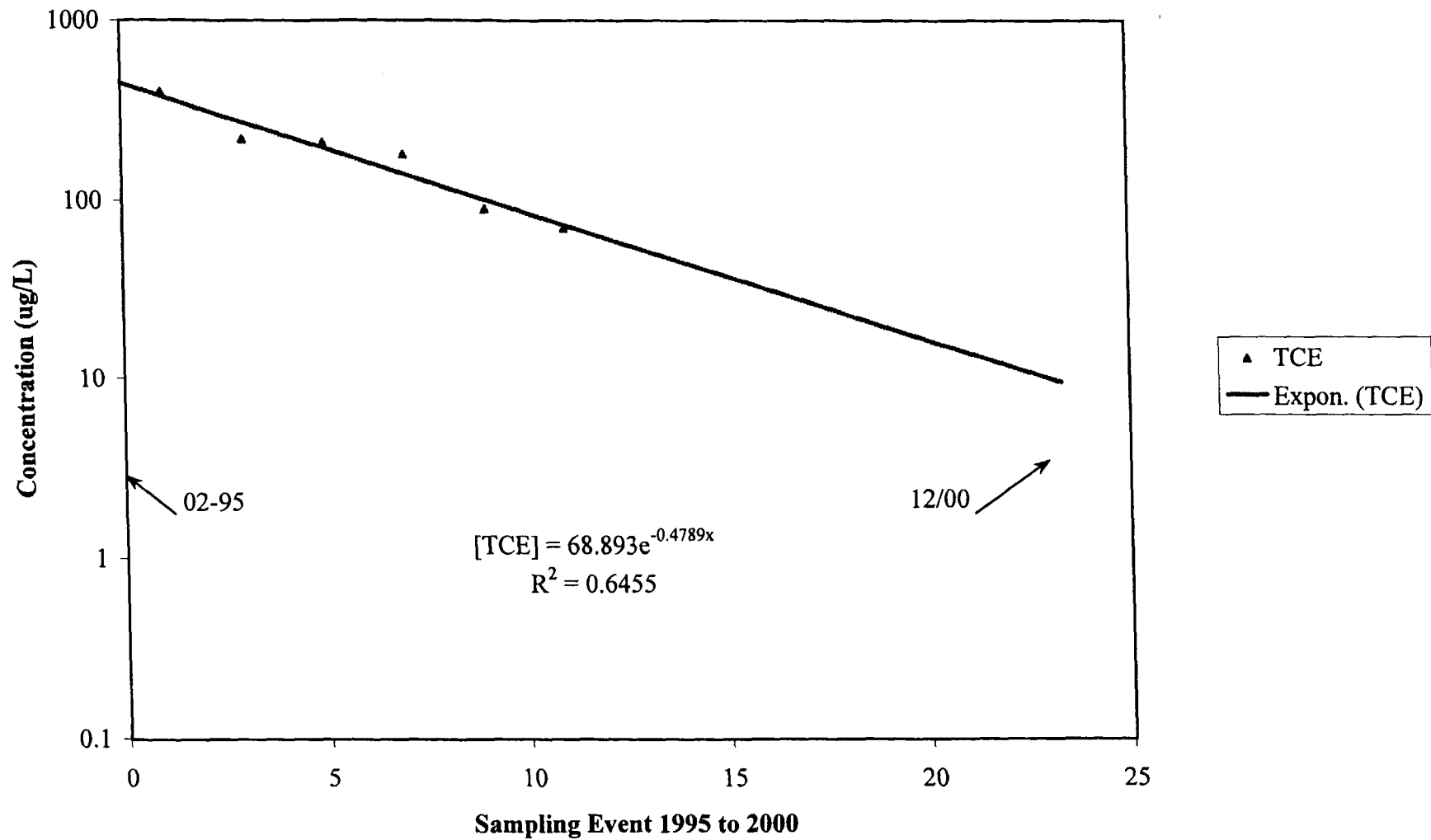


**Appendix**  
**Concentrations of TCE in MP11D Over Time**

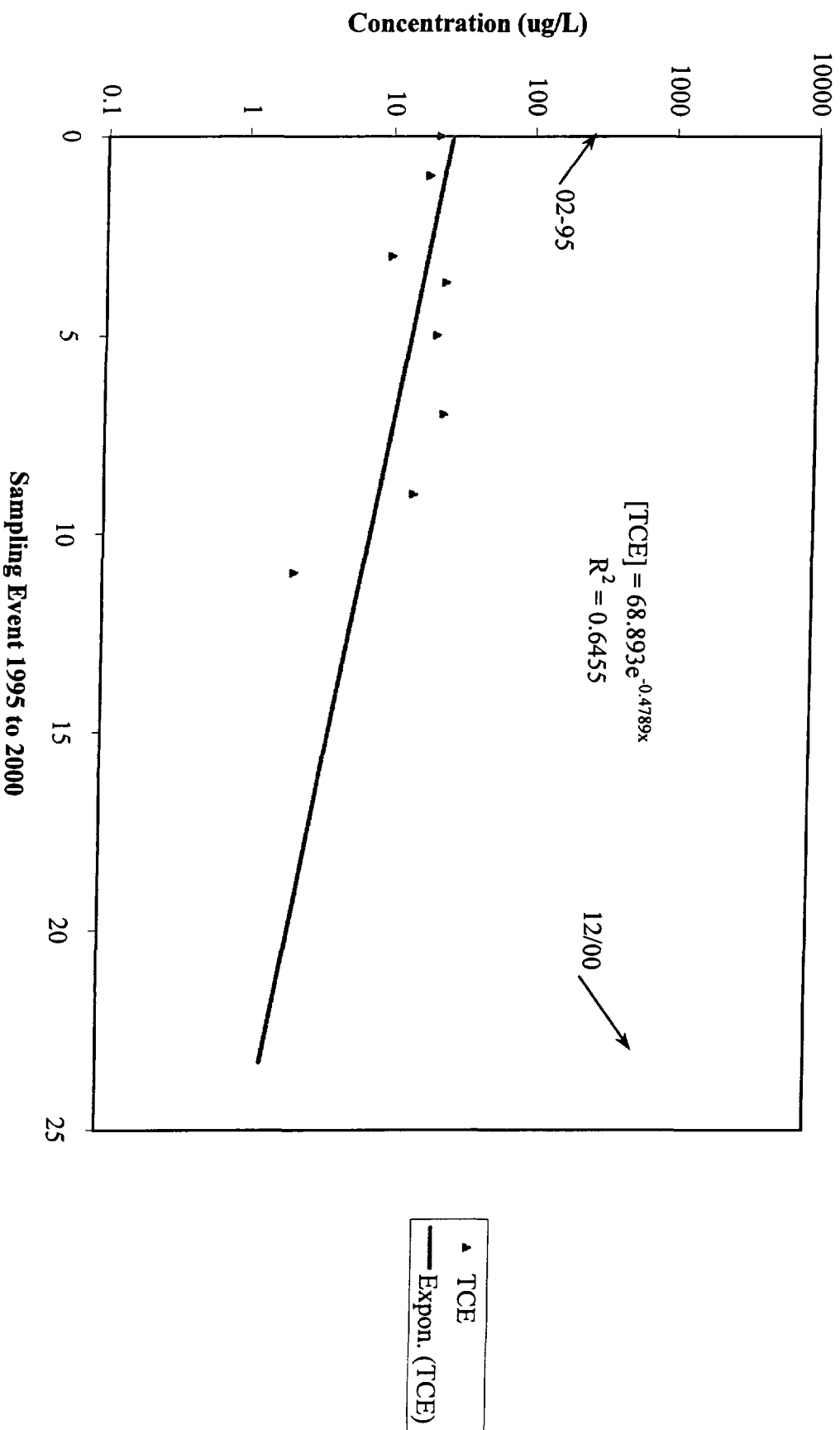


# Appendix

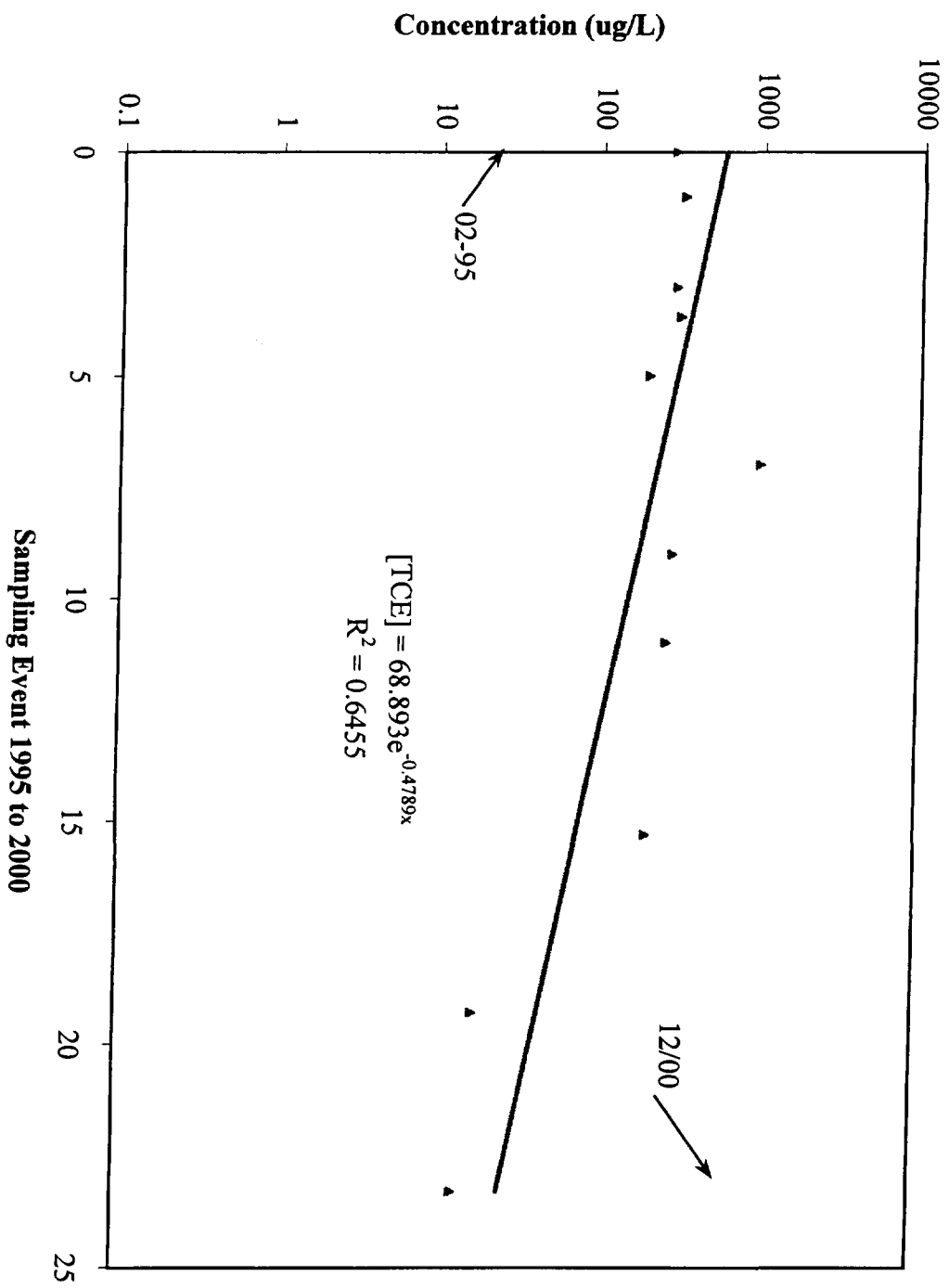
## Concentrations of TCE in PZ04 Over Time



# Appendix Concentrations of TCE in DM606-45 Over Time

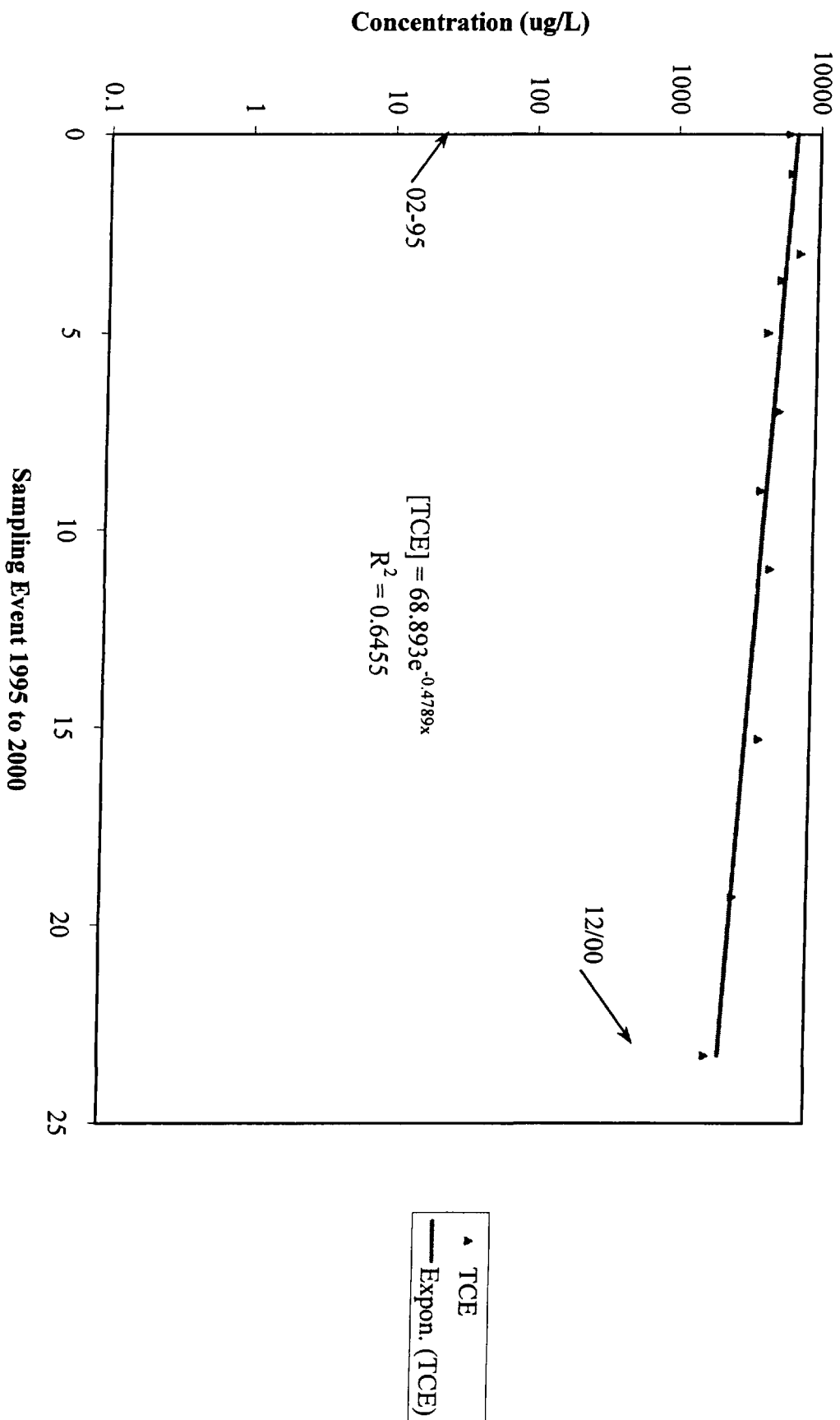


# Appendix Concentrations of TCE in DM606-102 Over Time

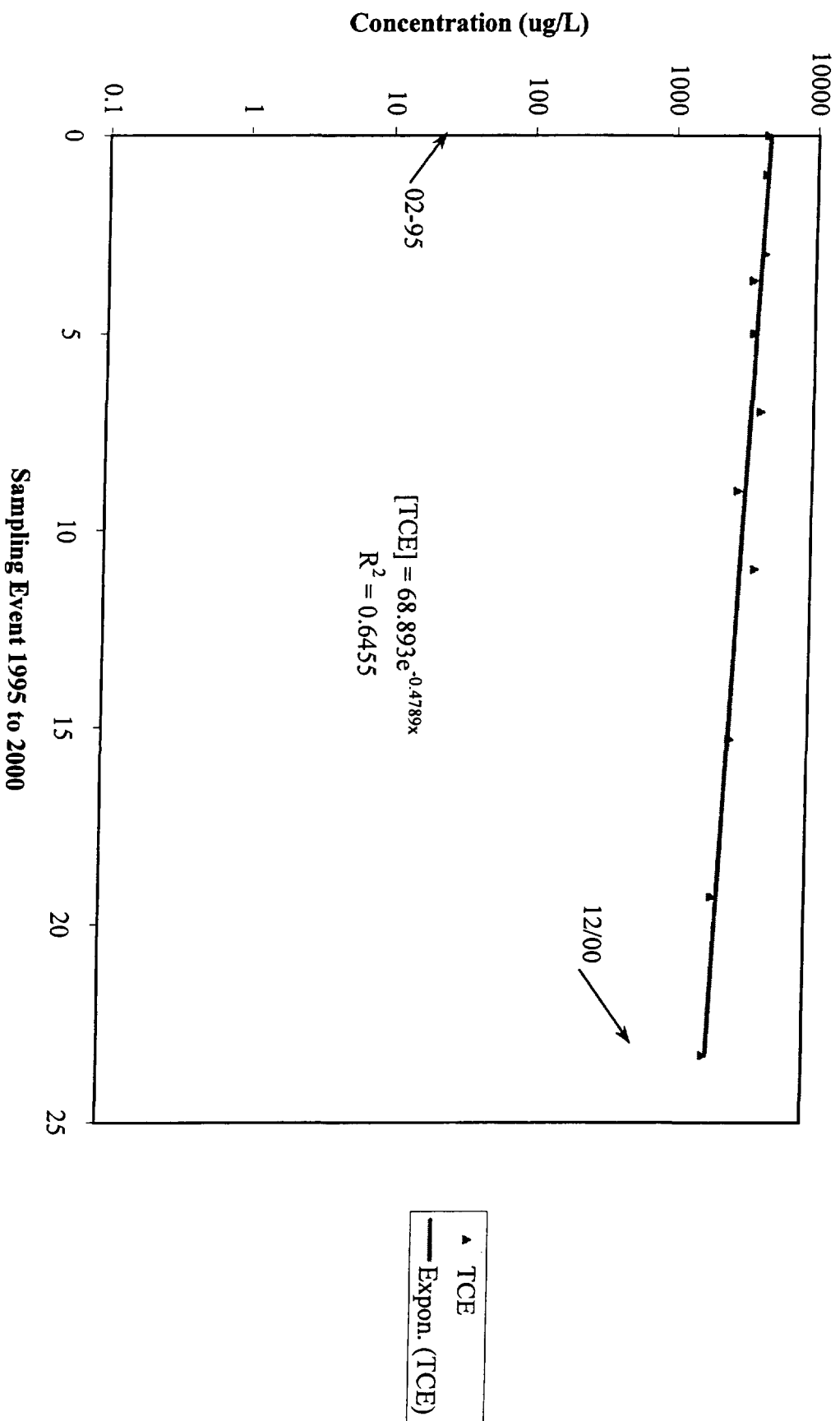


▲ TCE  
— Expon. (TCE)

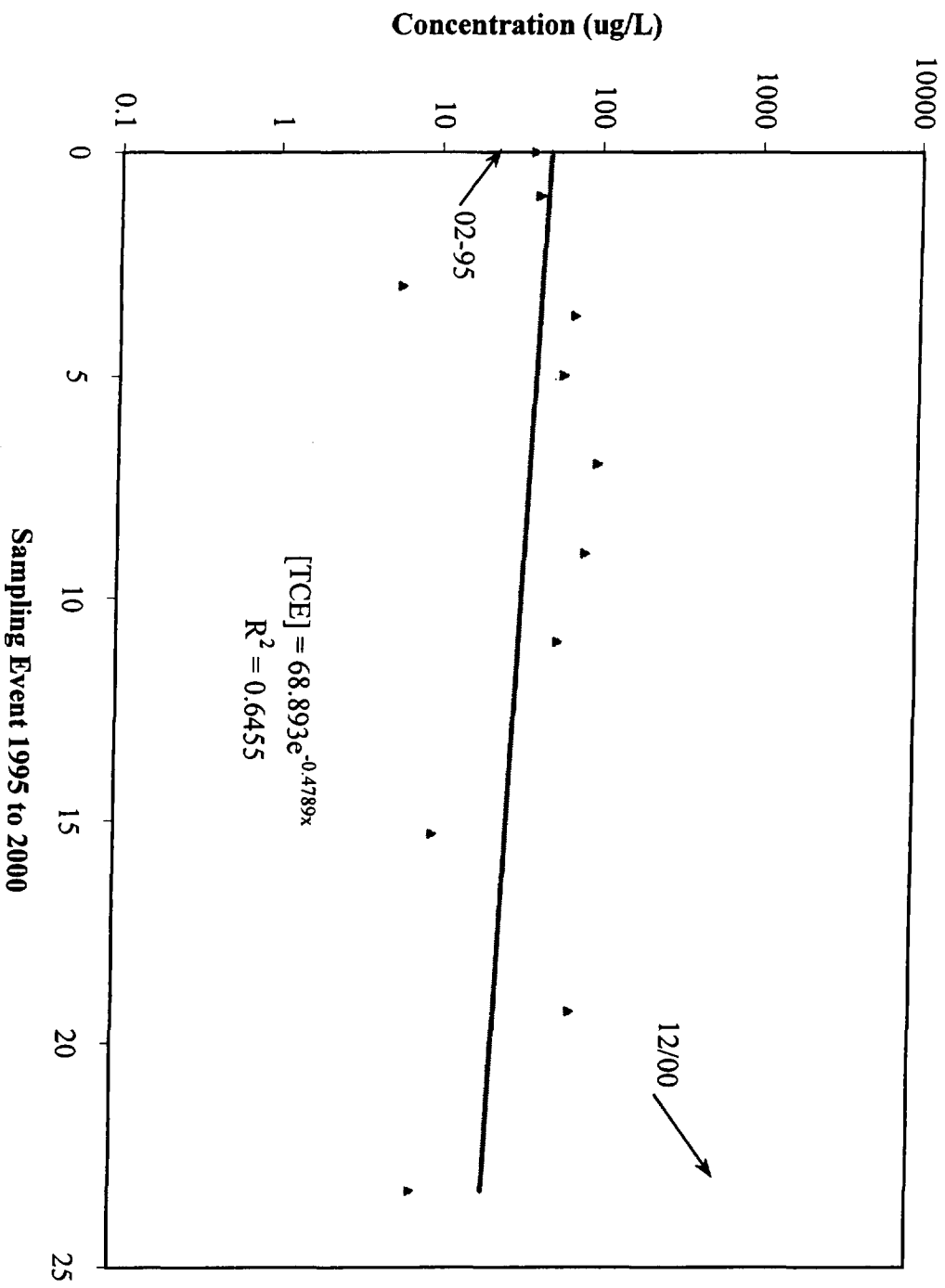
# Appendix Concentrations of TCE in DM606-185 Over Time



# Appendix Concentrations of TCE in DM606-250 Over Time



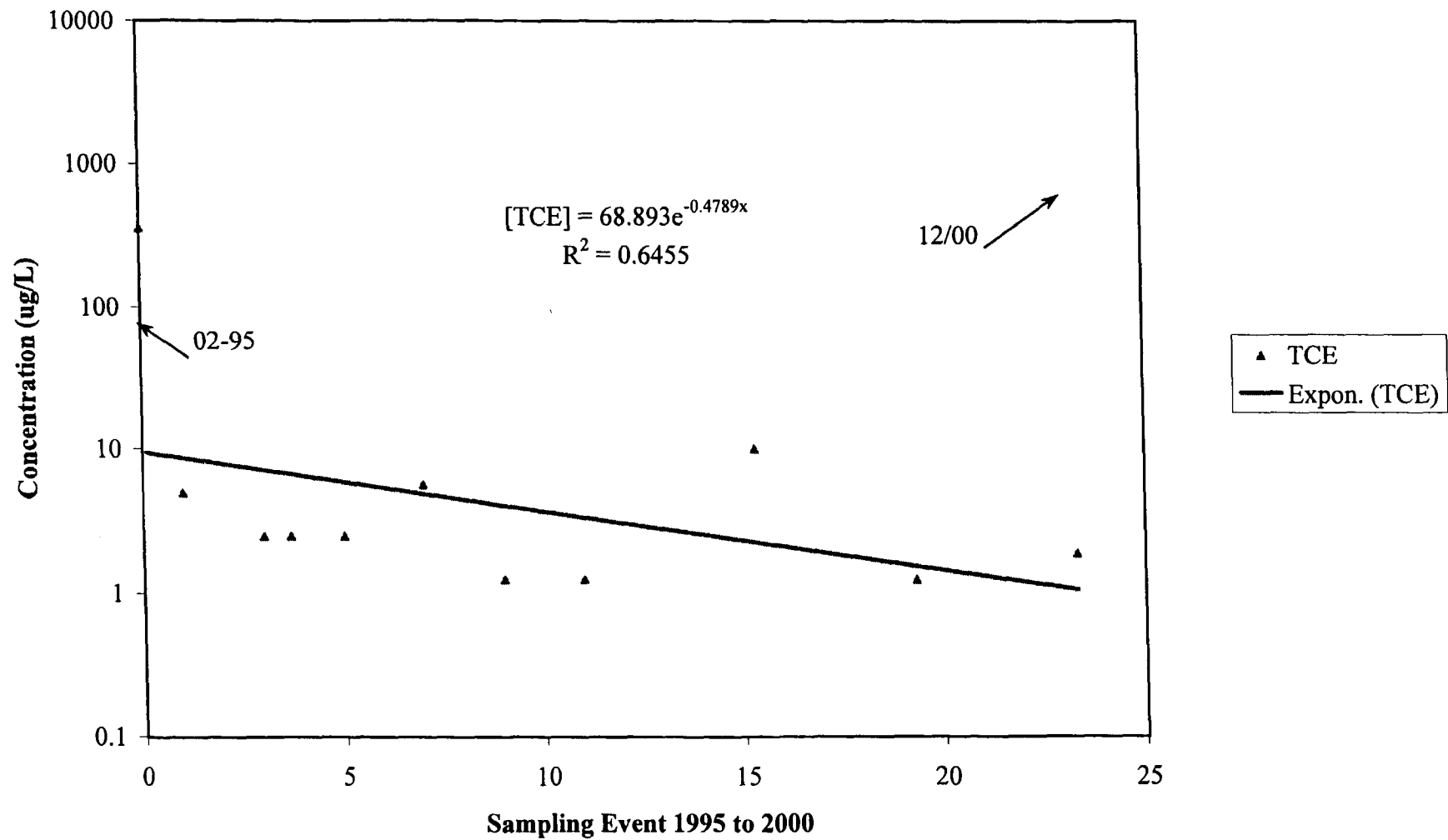
# Appendix Concentrations of TCE in DM606-330 Over Time



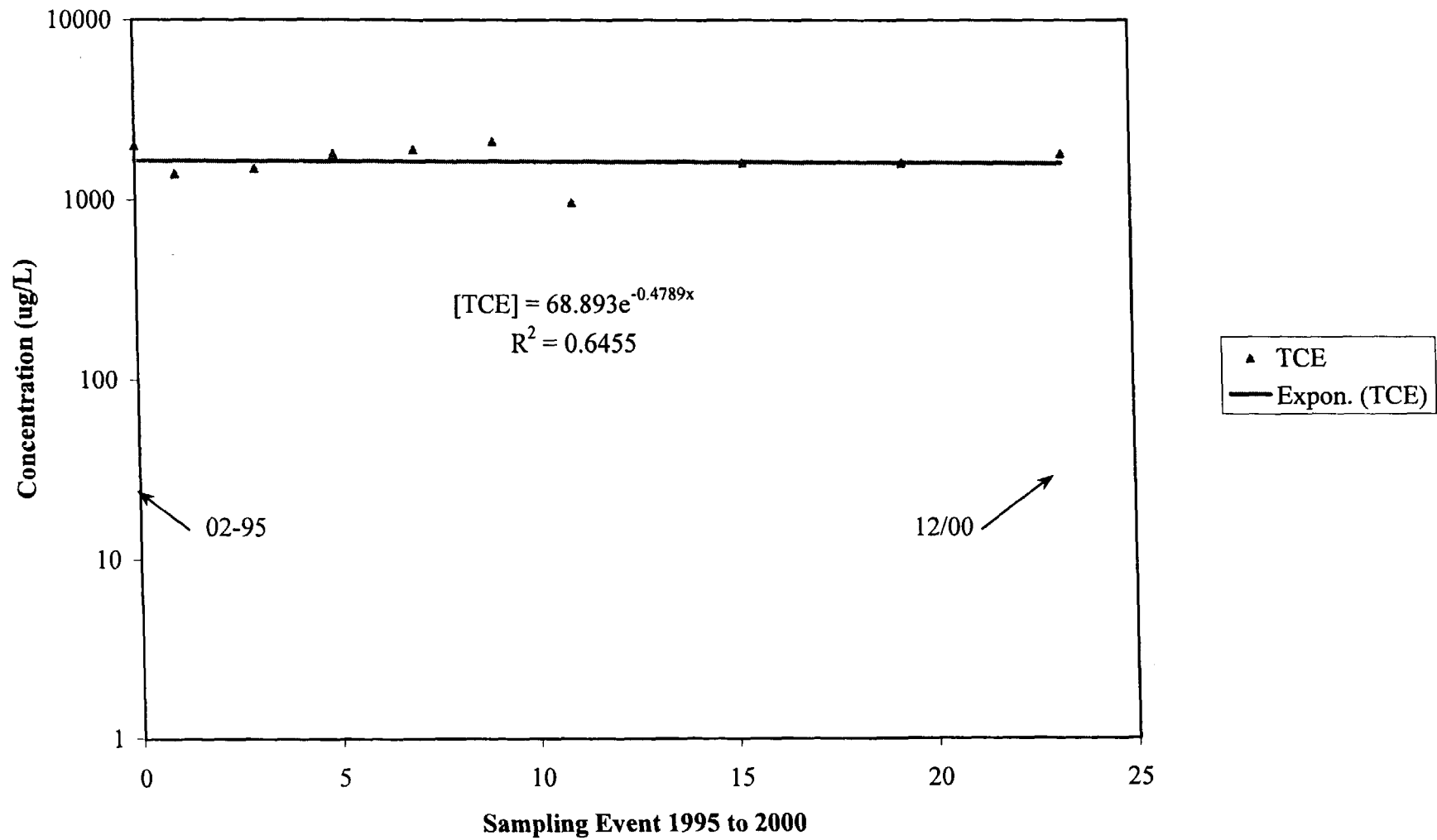
▲ TCE  
— Expon. (TCE)

# Appendix

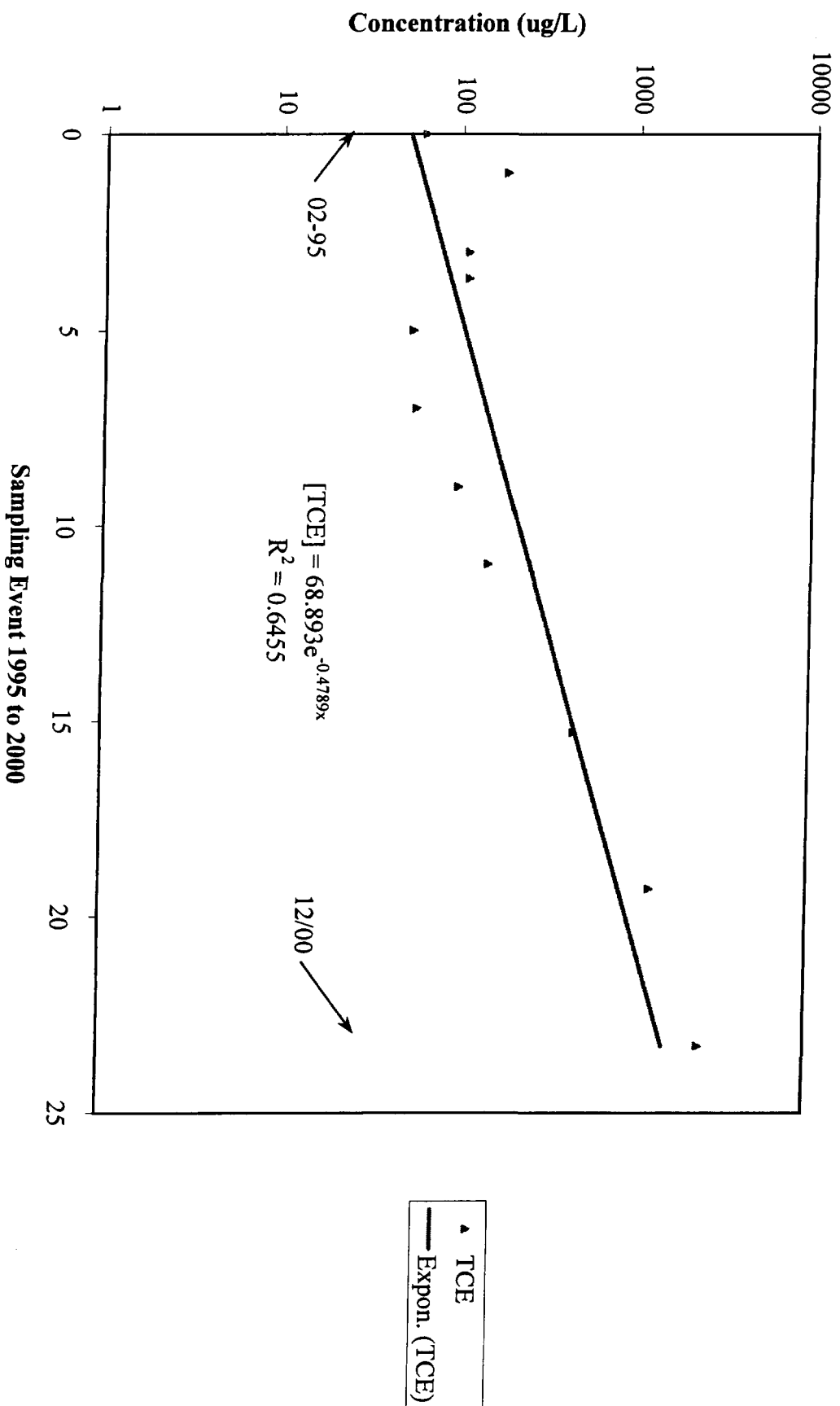
## Concentrations of TCE in DM606-370 Over Time



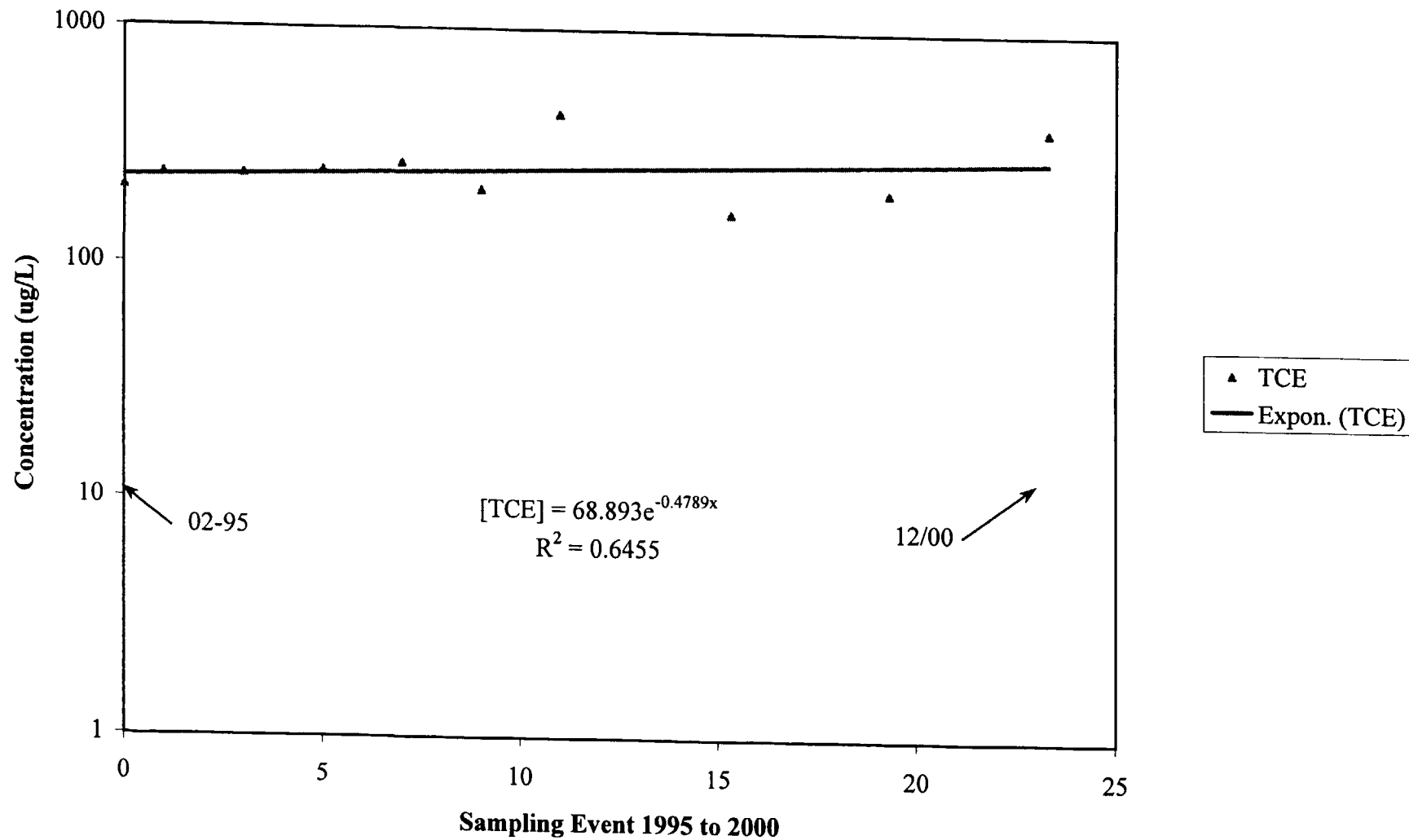
# Appendix Concentrations of TCE in DM305 Over Time



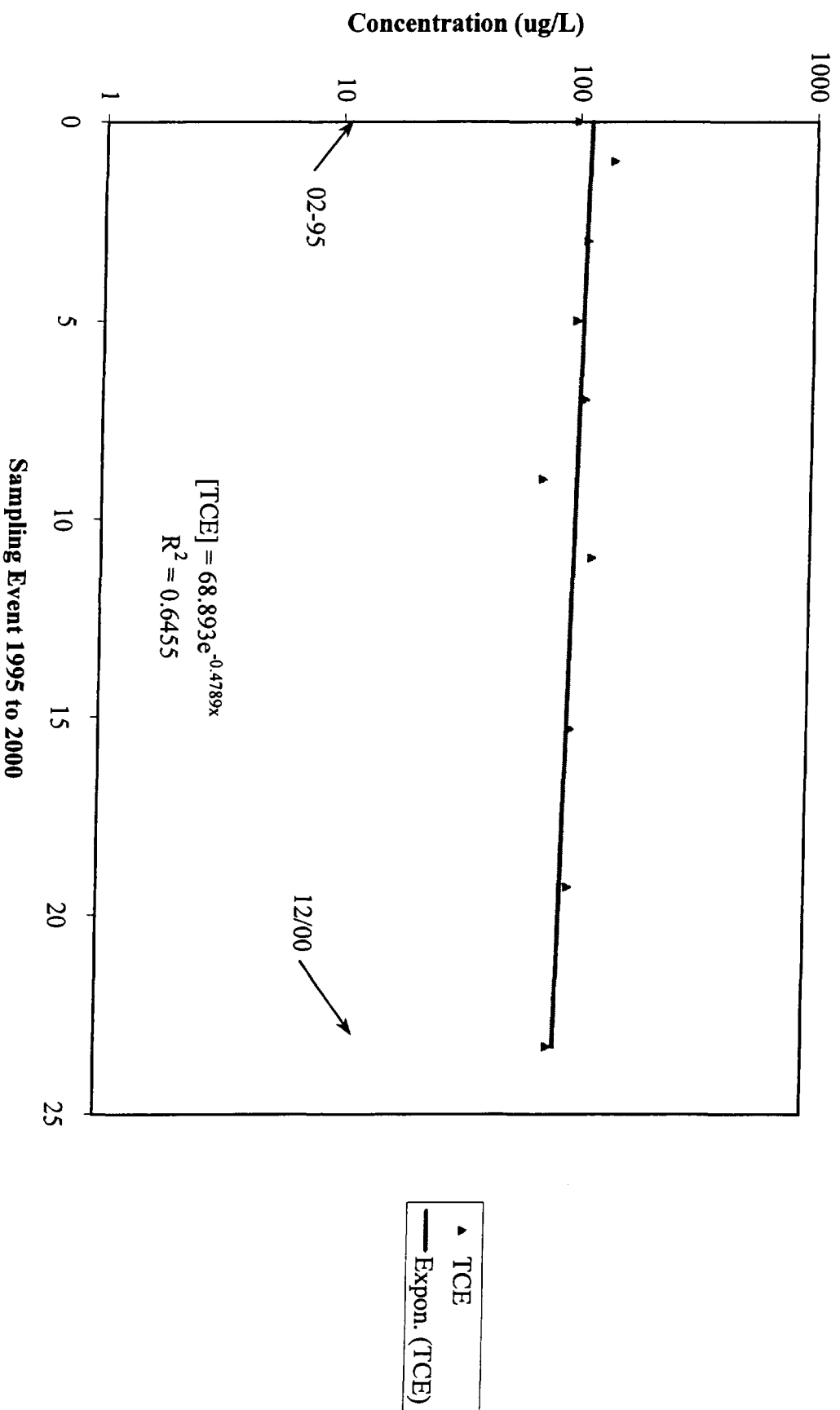
# Appendix Concentrations of TCE in DM306 Over Time



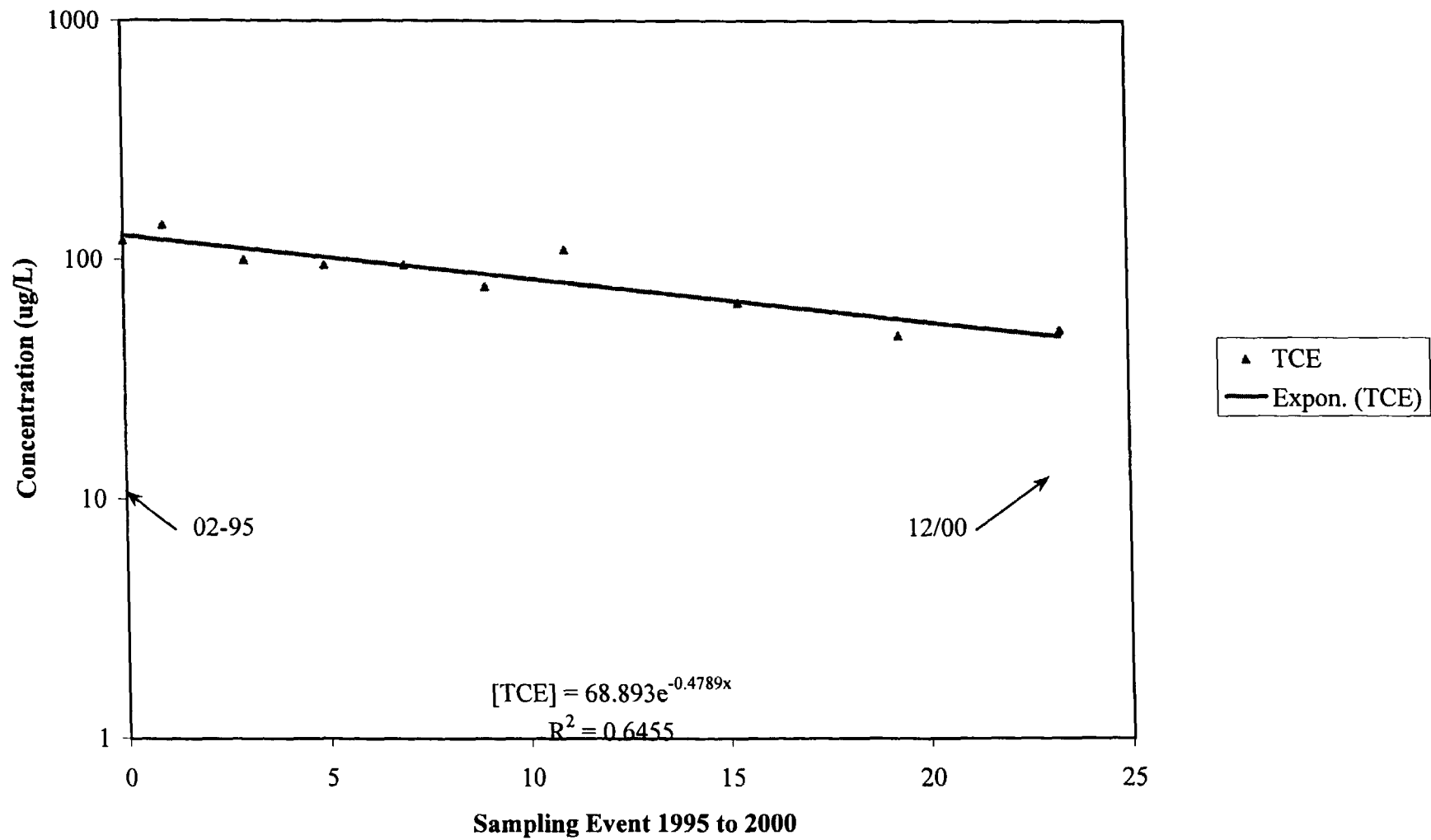
# Appendix Concentrations of TCE in DM307 Over Time



# Appendix Concentrations of TCE in DM308 Over Time

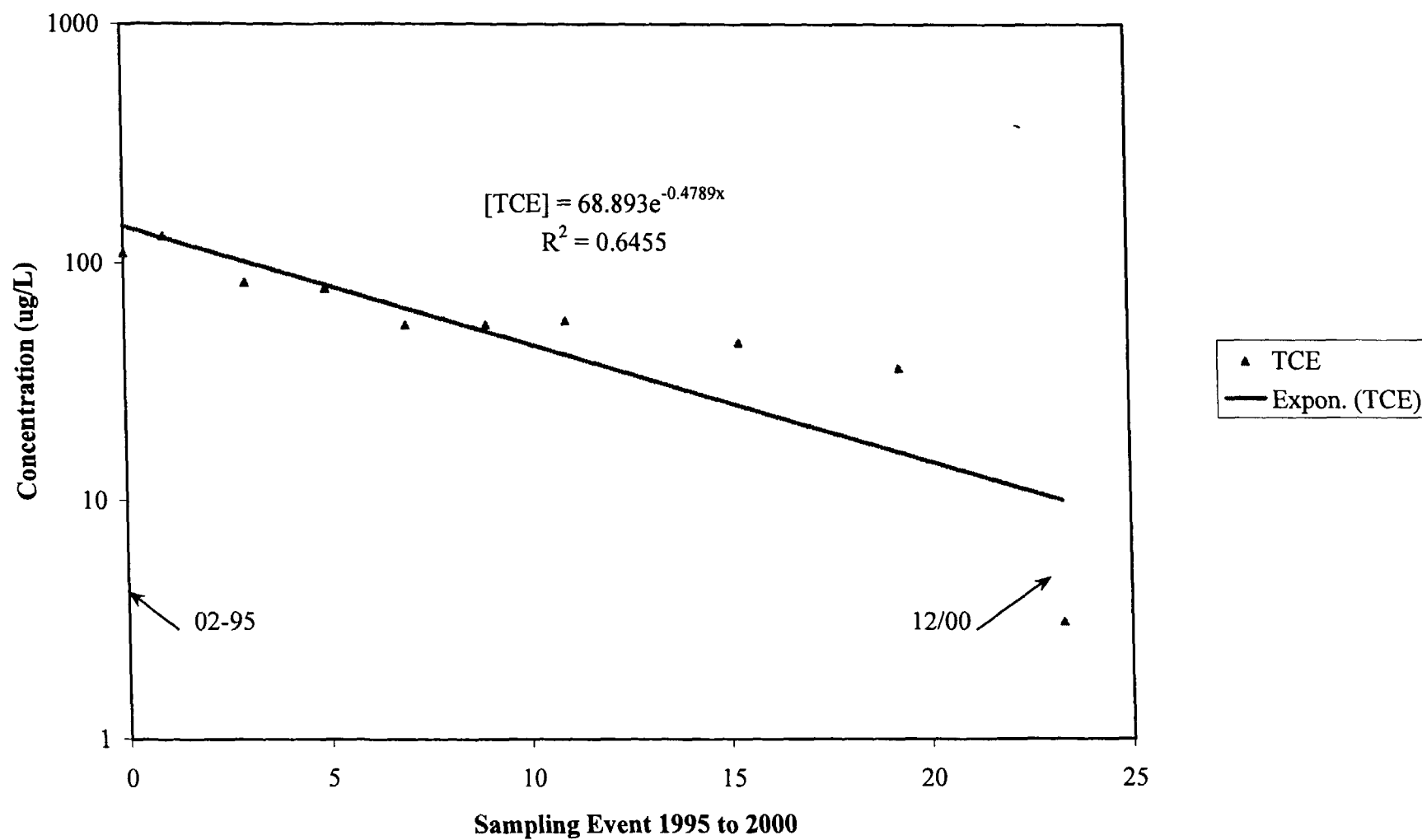


**Appendix**  
**Concentrations of TCE in DM309 Over Time**



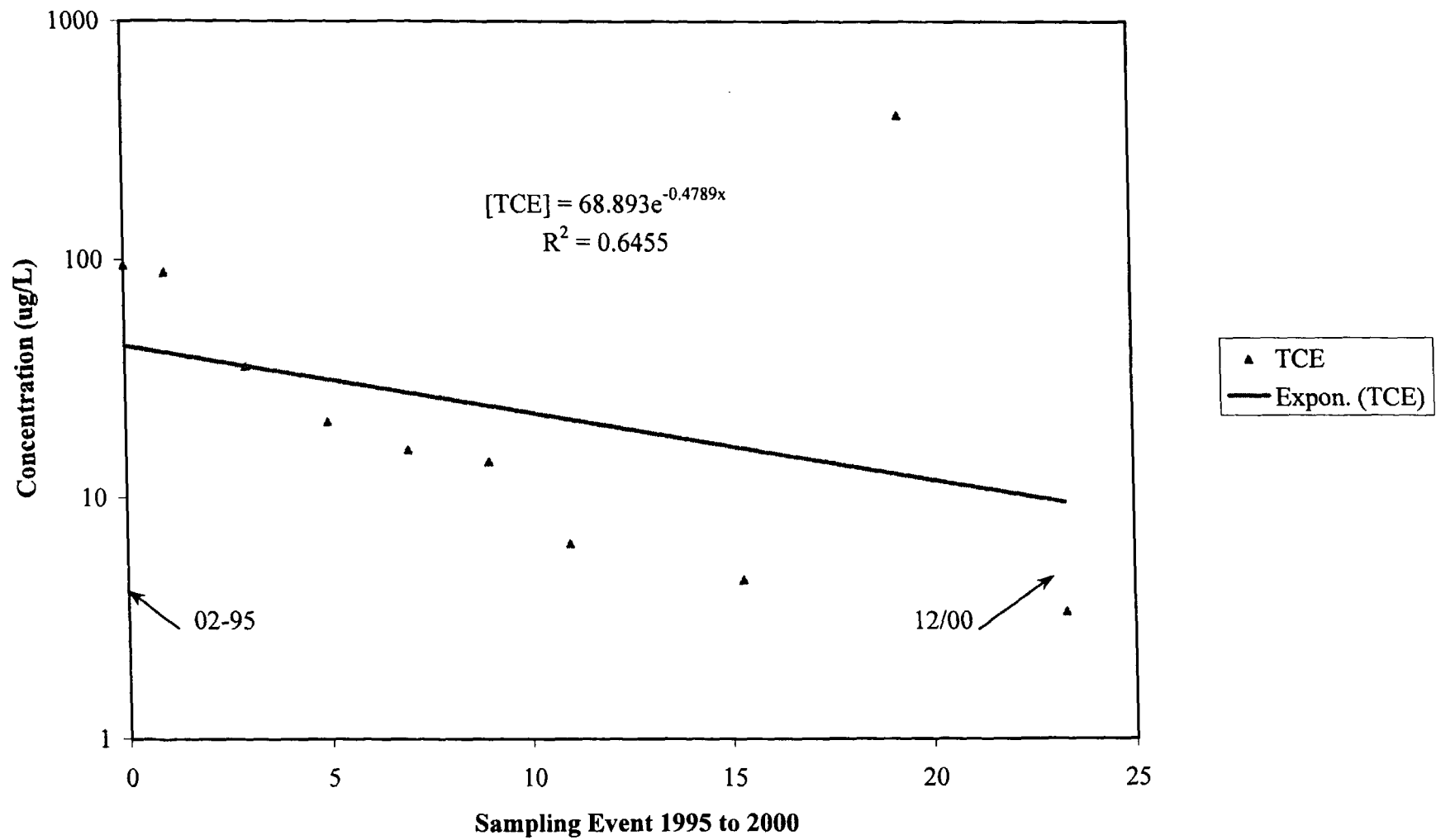
# Appendix

## Concentrations of TCE in DM310 Over Time

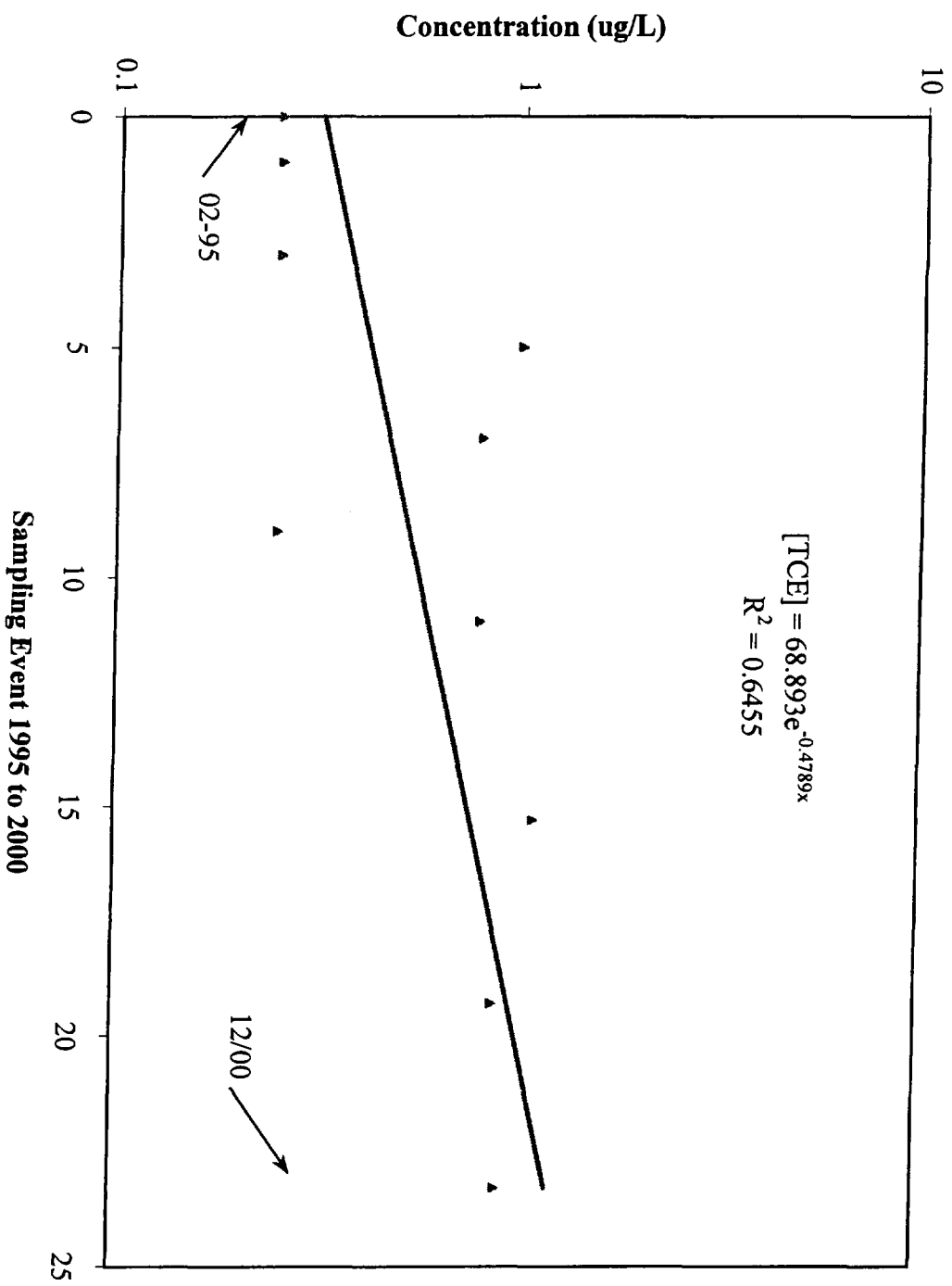


# Appendix

## Concentrations of TCE in DM311 Over Time

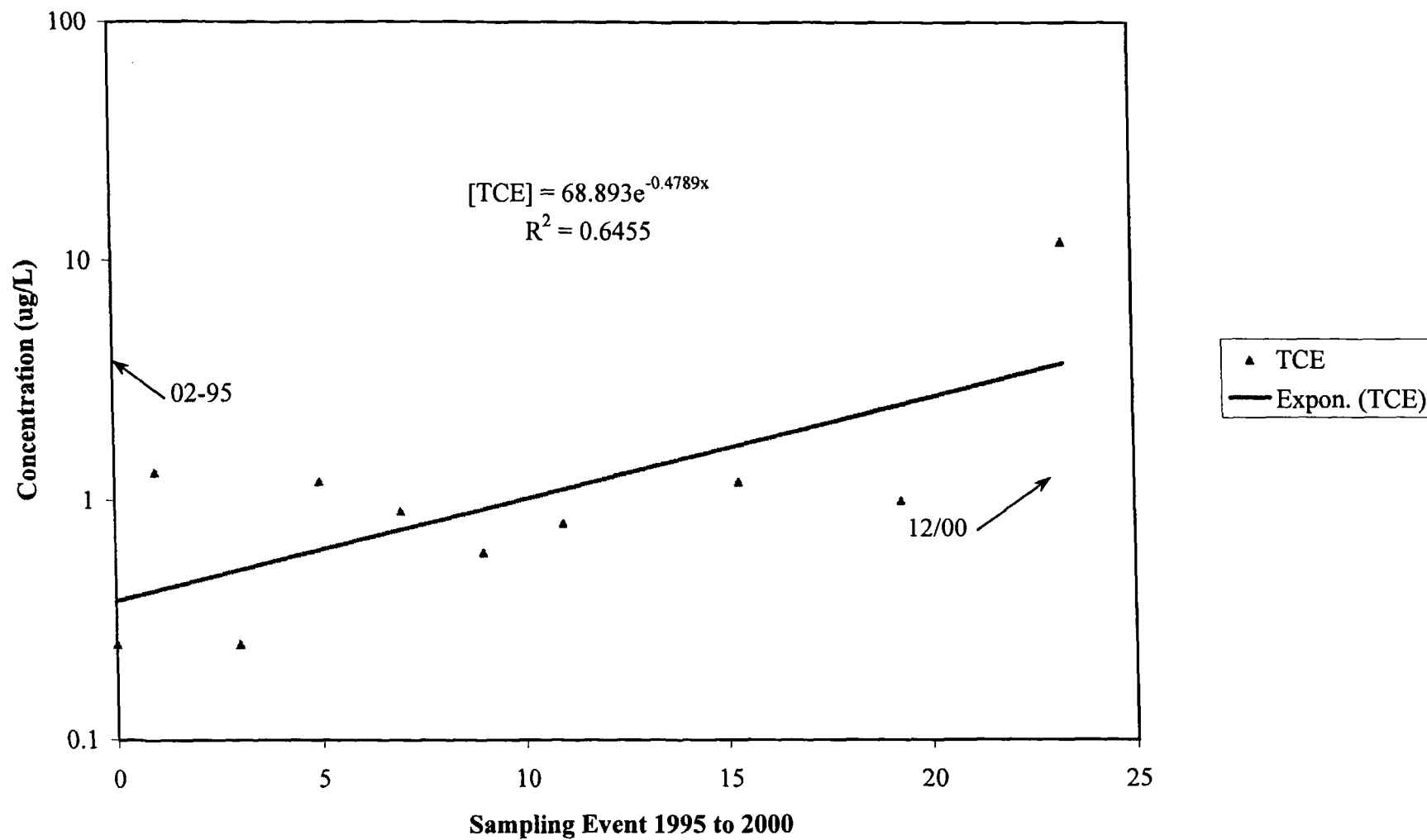


# Appendix Concentrations of TCE in DM312 Over Time

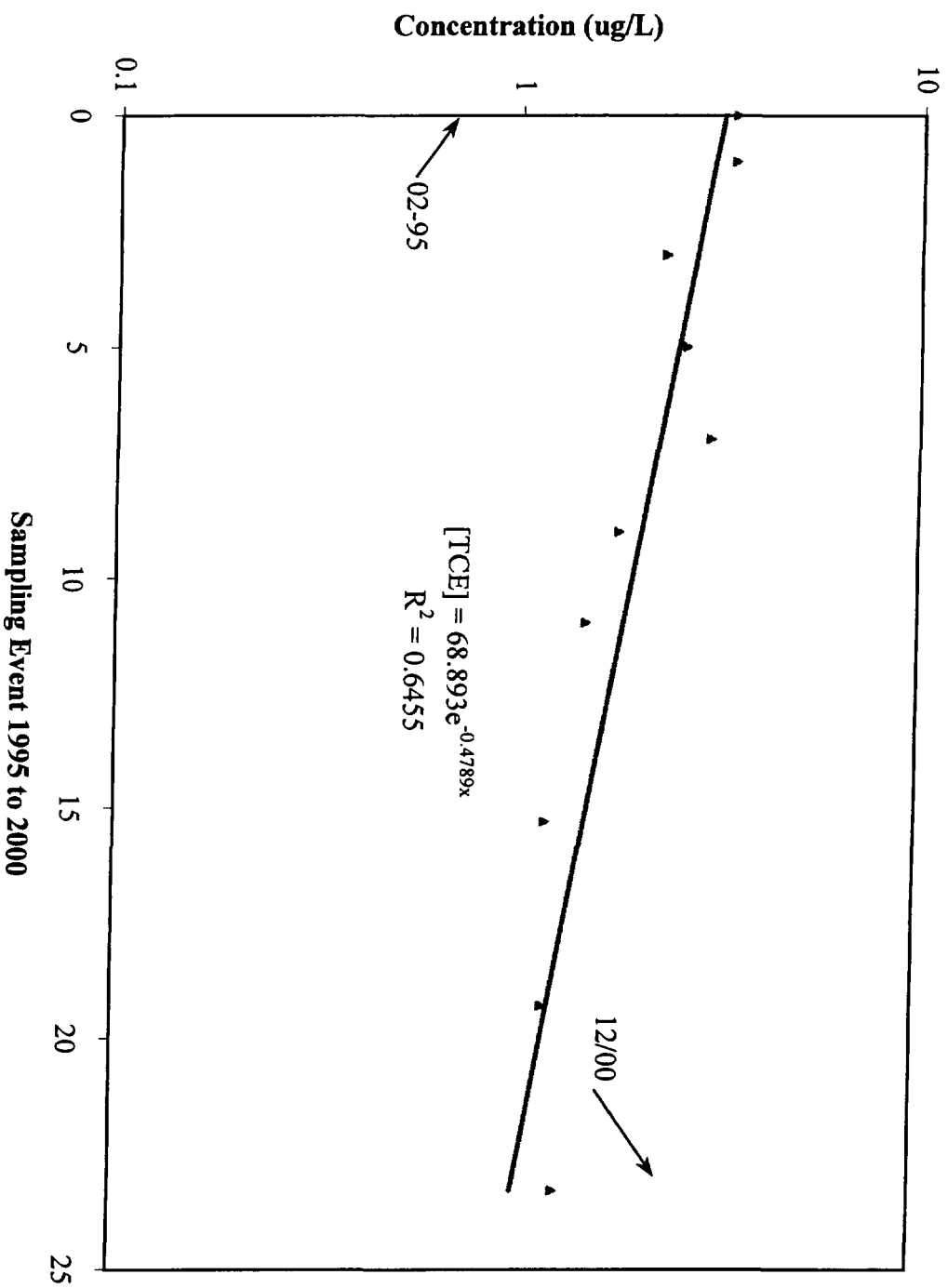


# Appendix

## Concentrations of TCE in DM313 Over Time

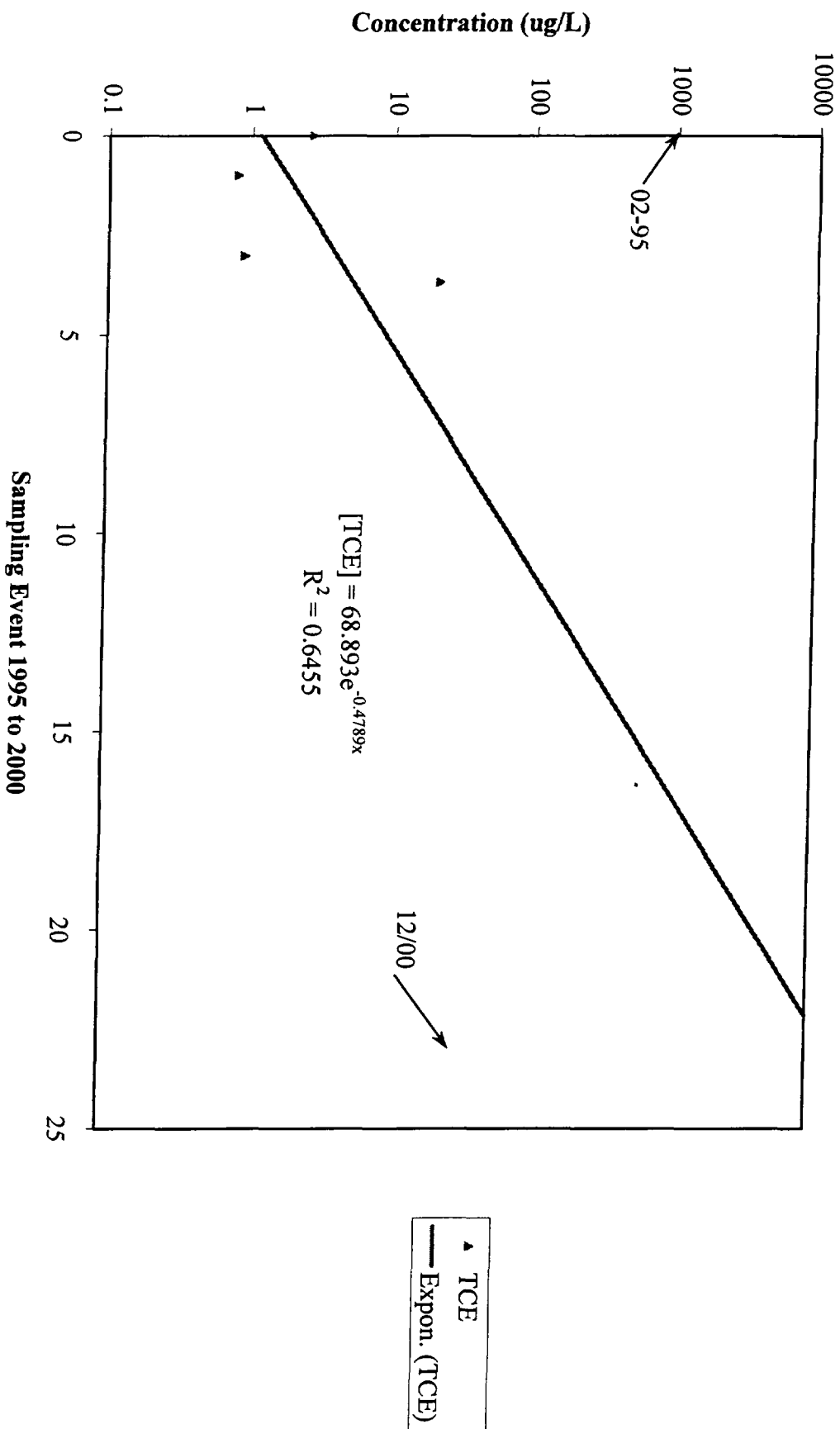


# Appendix Concentrations of TCE in DM602 Over Time

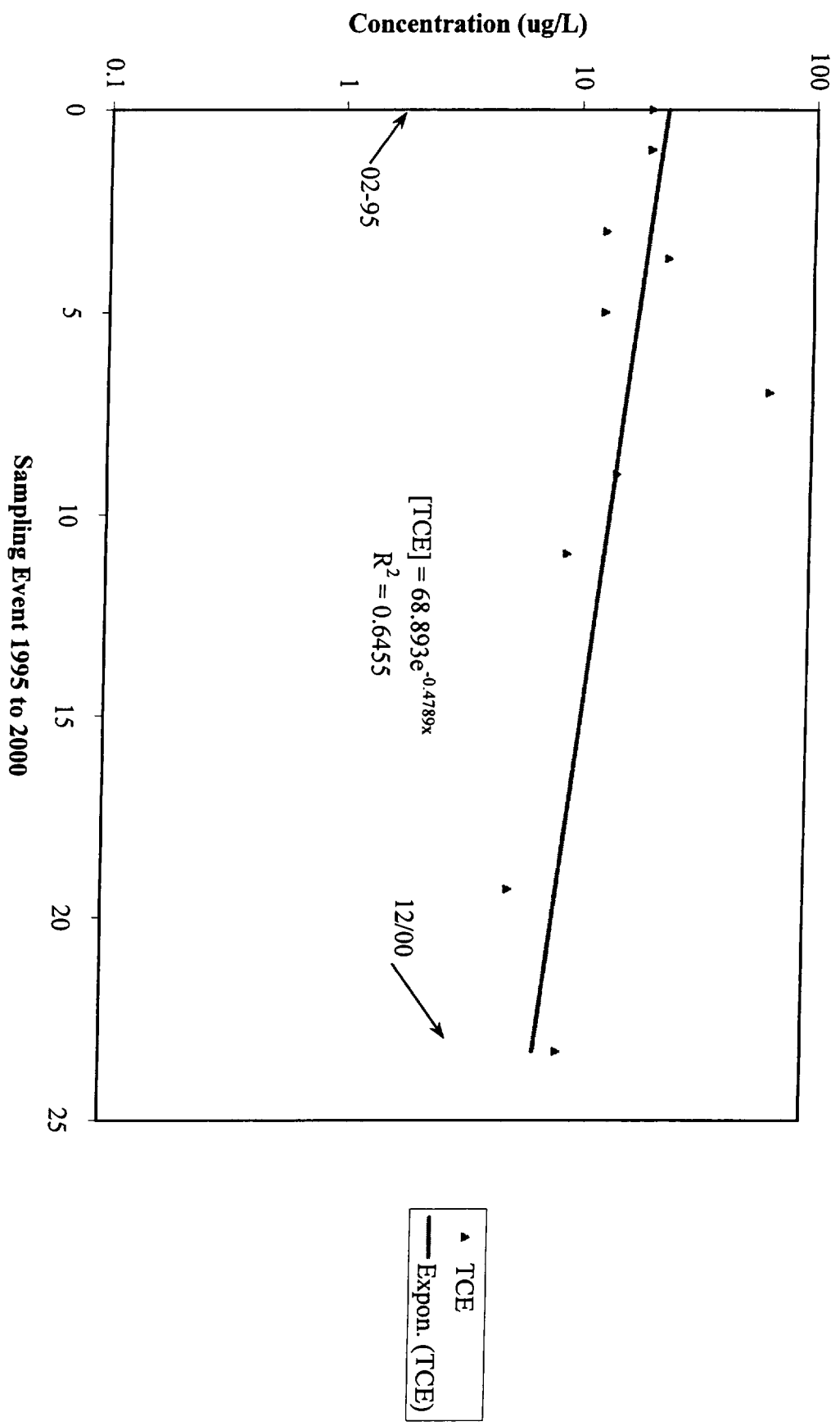


▲ TCE  
— Expon. (TCE)

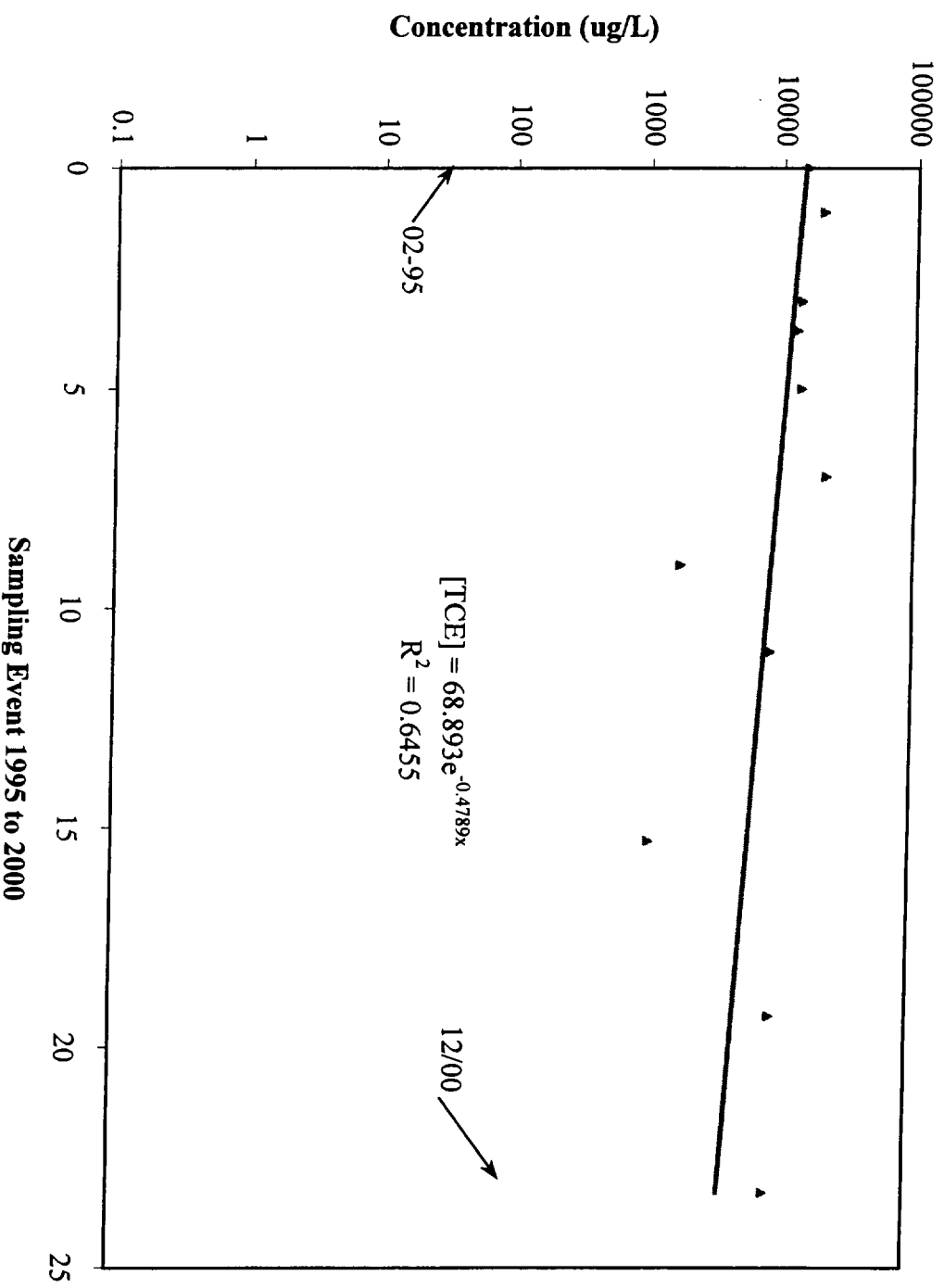
# Appendix Concentrations of TCE in DM603-68 Over Time



# Appendix Concentrations of TCE in DM603-115 Over Time

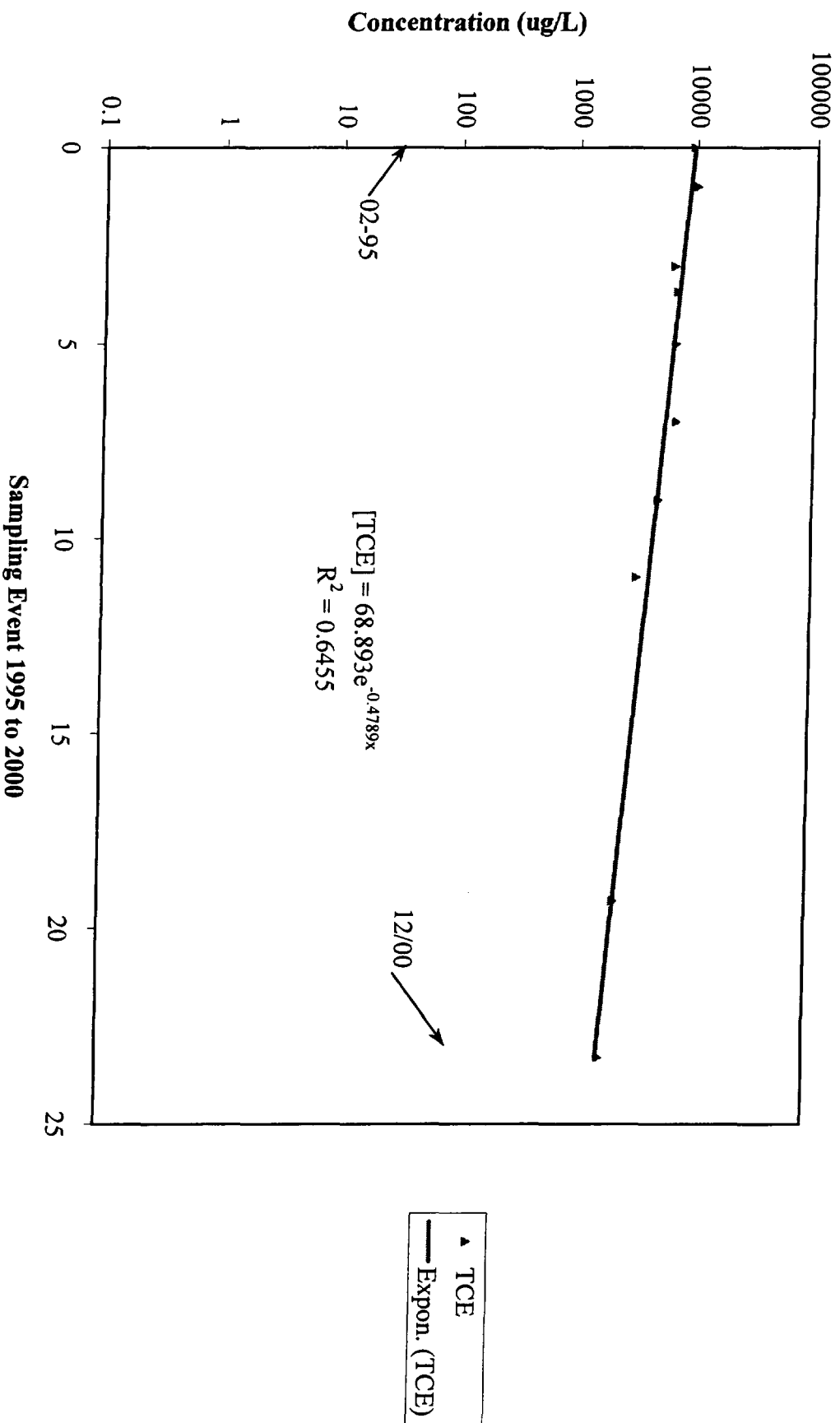


# Appendix Concentrations of TCE in DM603-170 Over Time

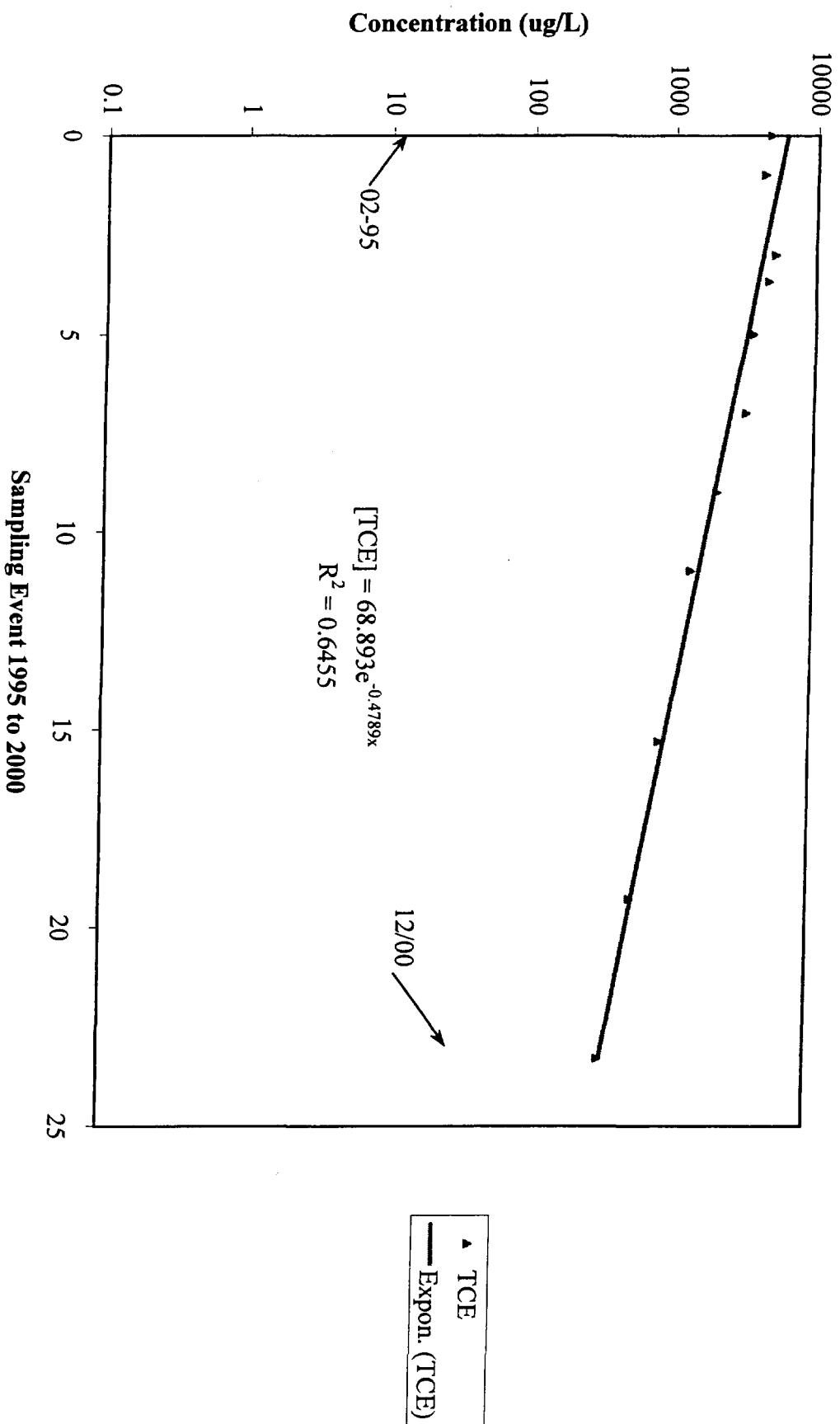


▲ TCE  
— Expon. (TCE)

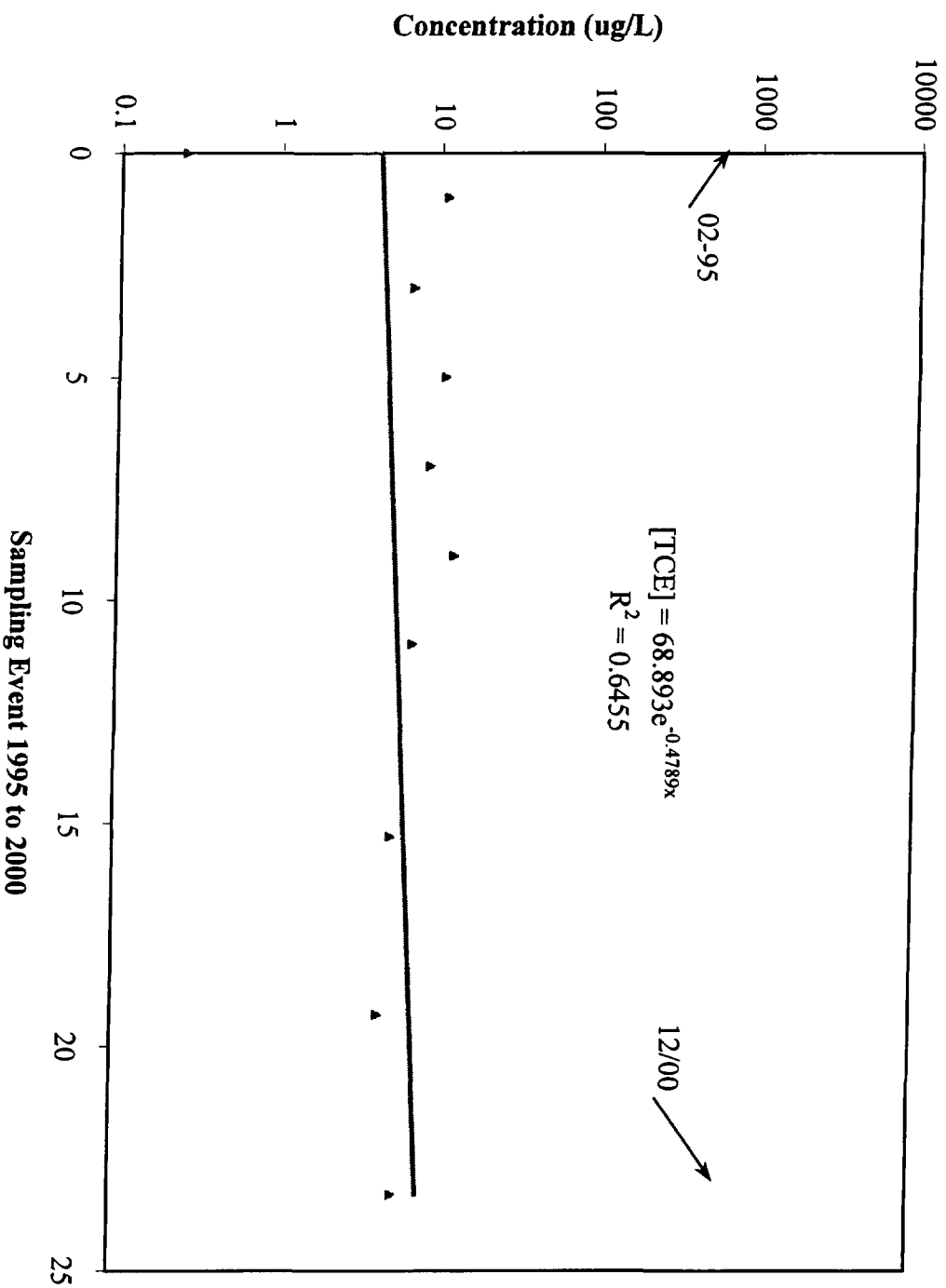
# Appendix Concentrations of TCE in DM603-205 Over Time



# Appendix Concentrations of TCE in DM603-245 Over Time

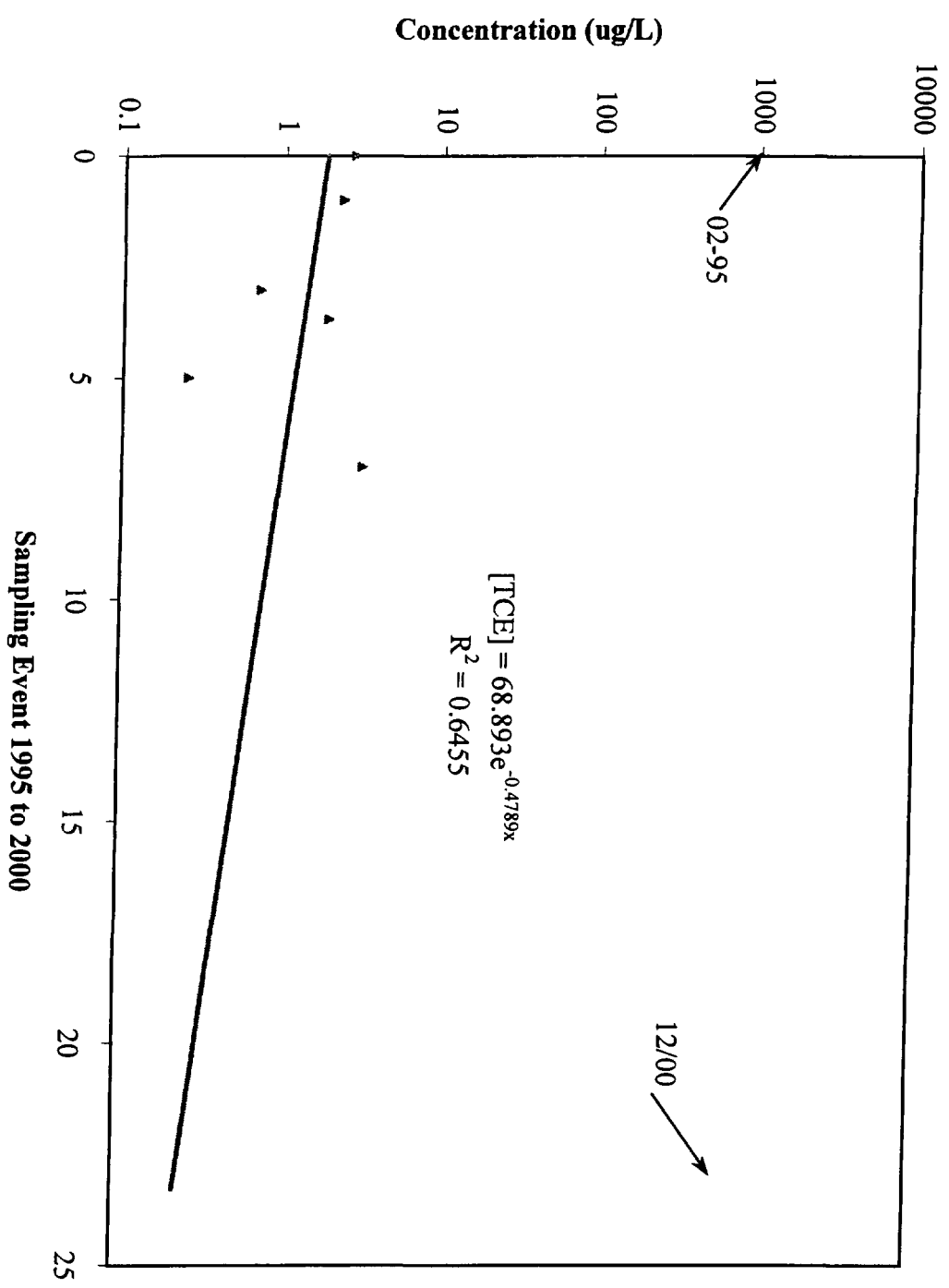


# Appendix Concentrations of TCE in DM604 Over Time



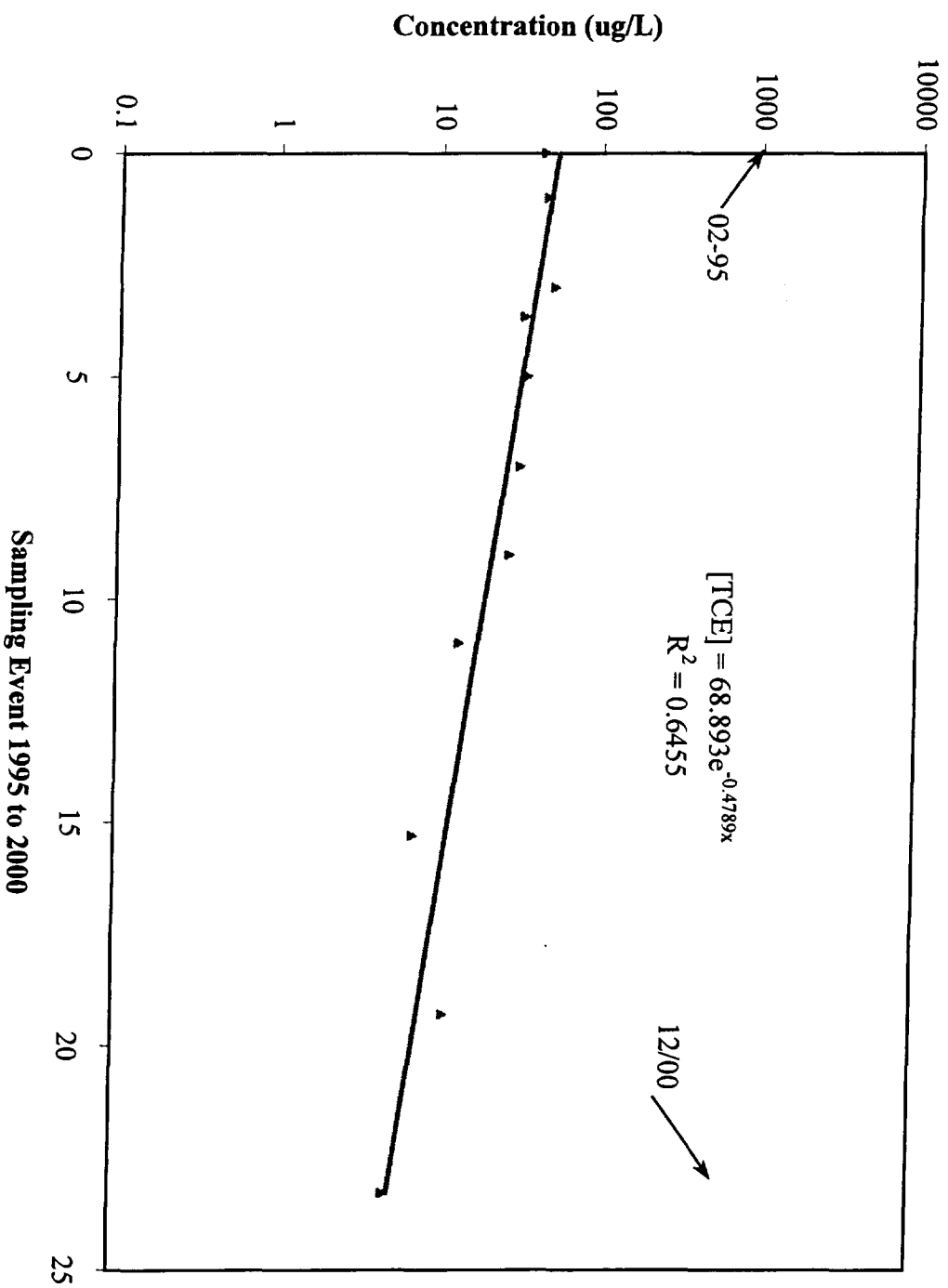
▲ TCE  
— Expon. (TCE)

# Appendix Concentrations of TCE in DM605-66 Over Time



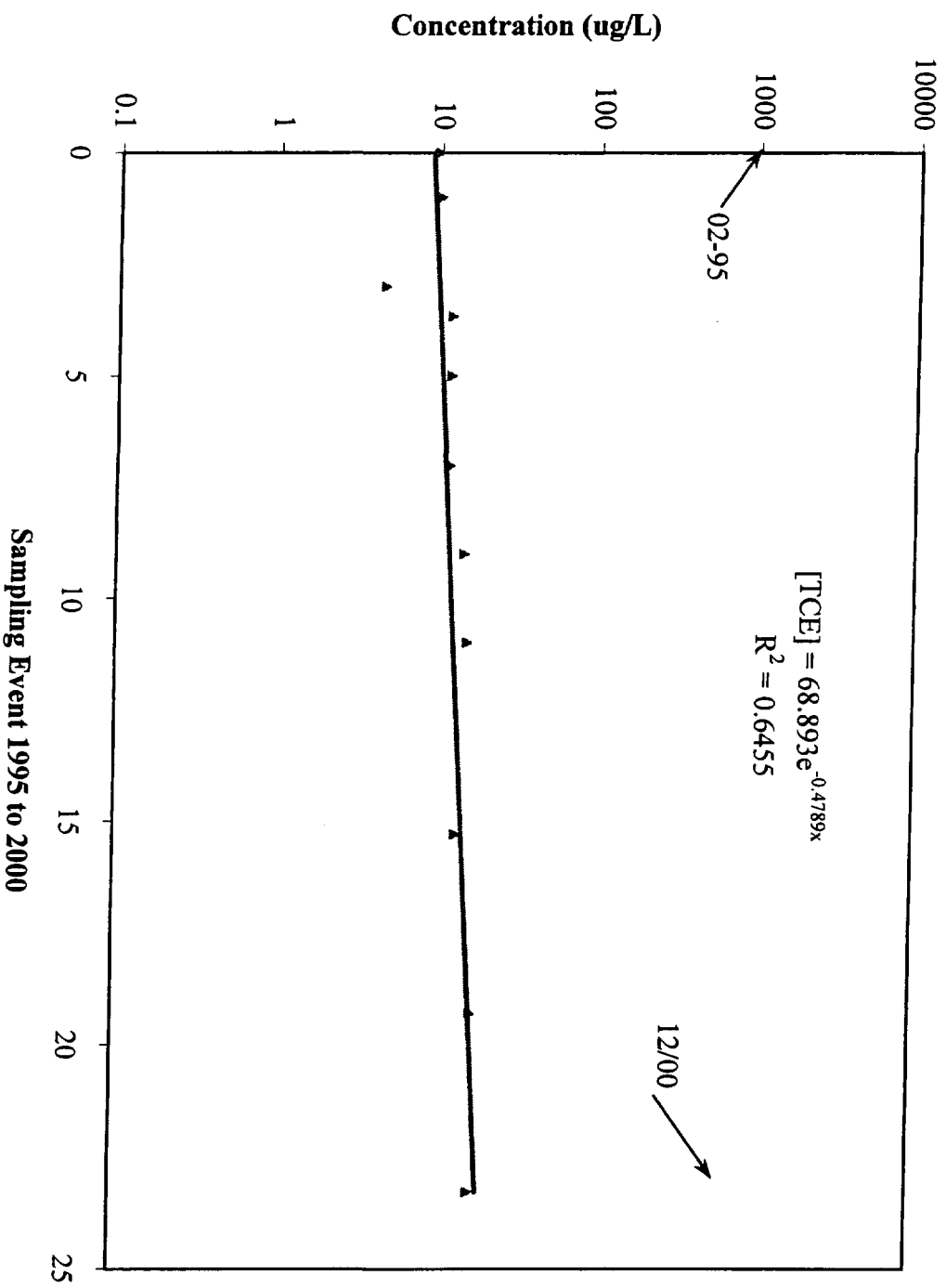
▲ TCE  
— Expon. (TCE)

# Appendix Concentrations of TCE in DM605-105 Over Time

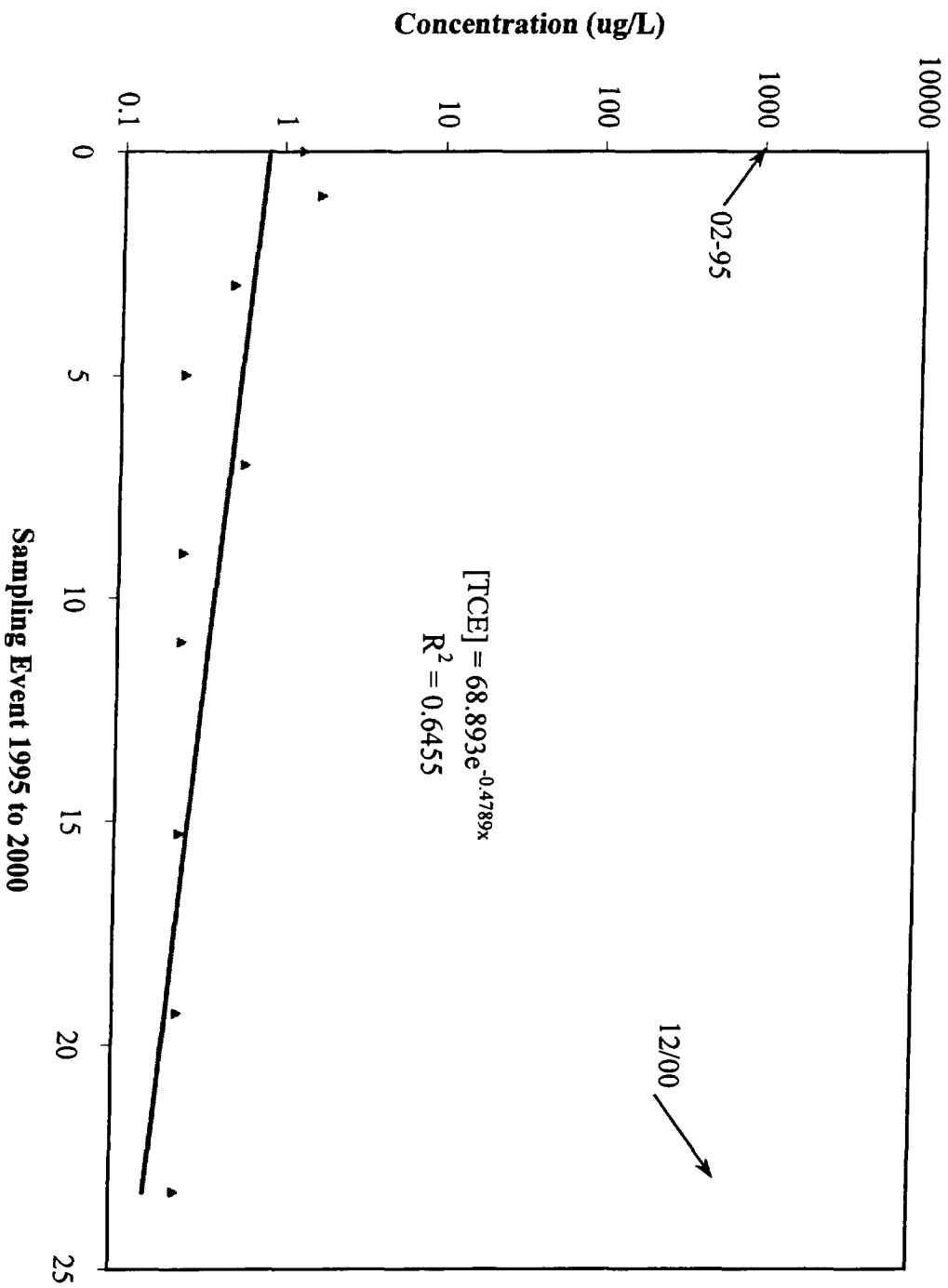


▲ TCE  
— Expon. (TCE)

# Appendix Concentrations of TCE in DM605-170 Over Time

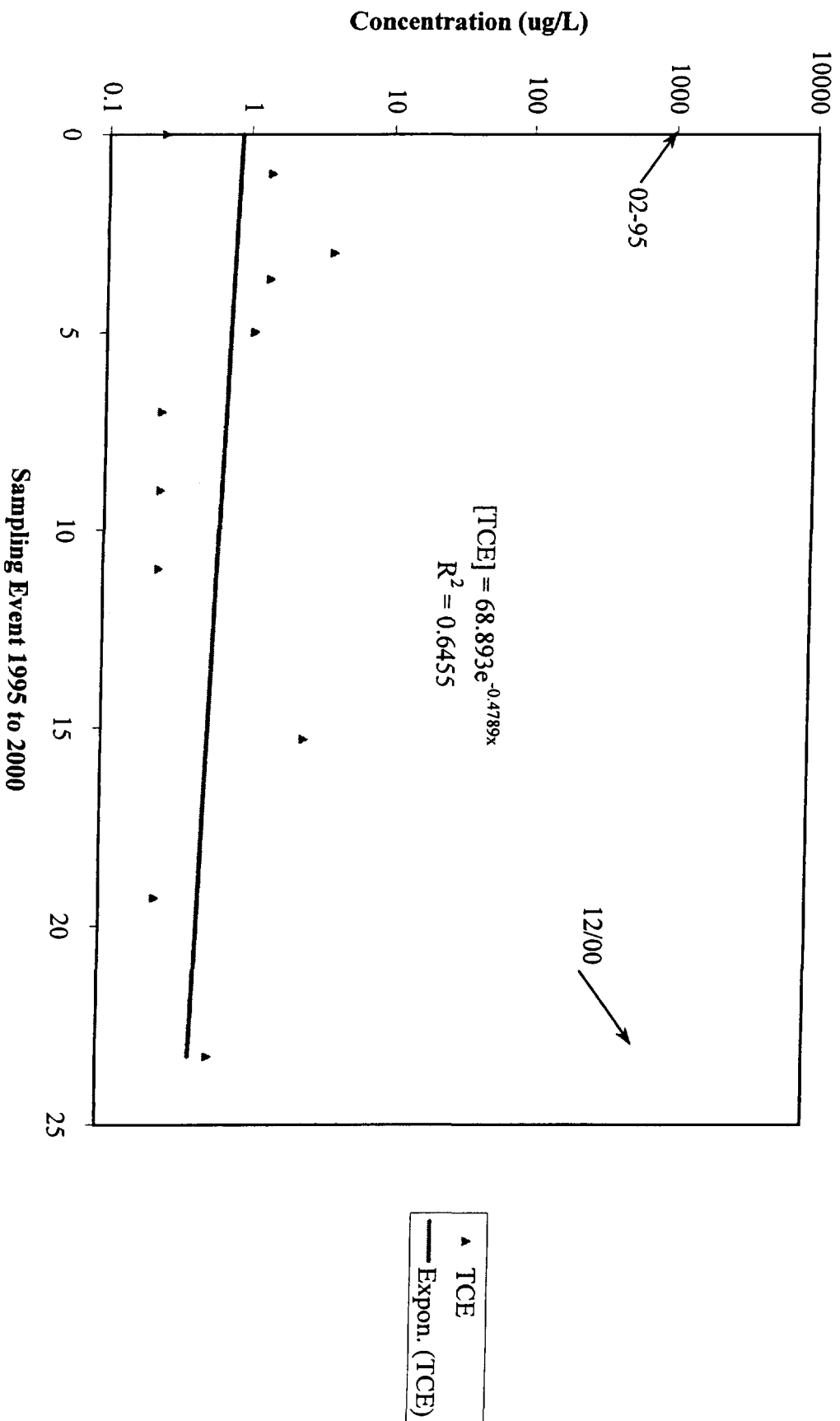


# Appendix Concentrations of TCE in DM605-240 Over Time

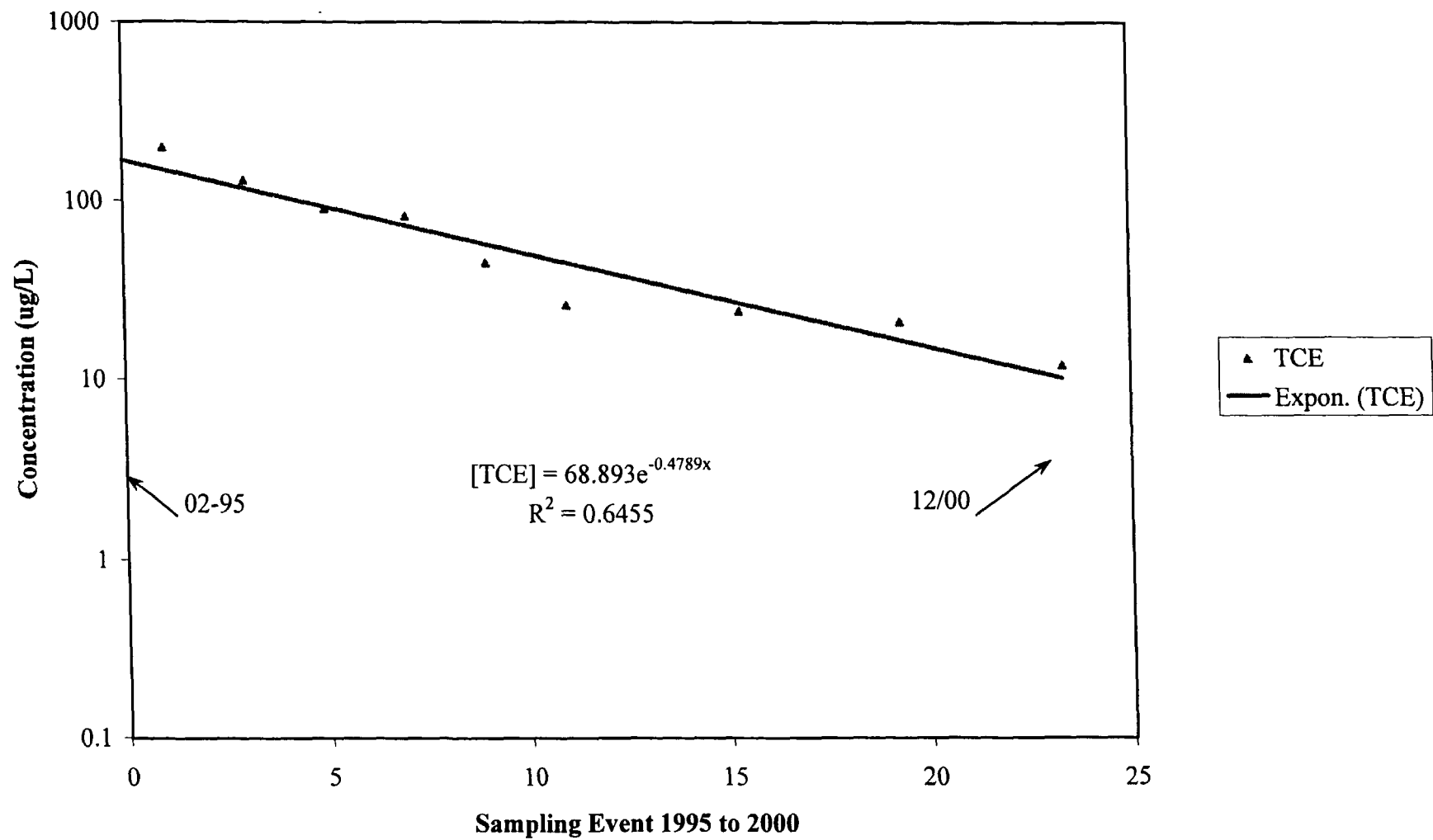


▲ TCE  
— Expon. (TCE)

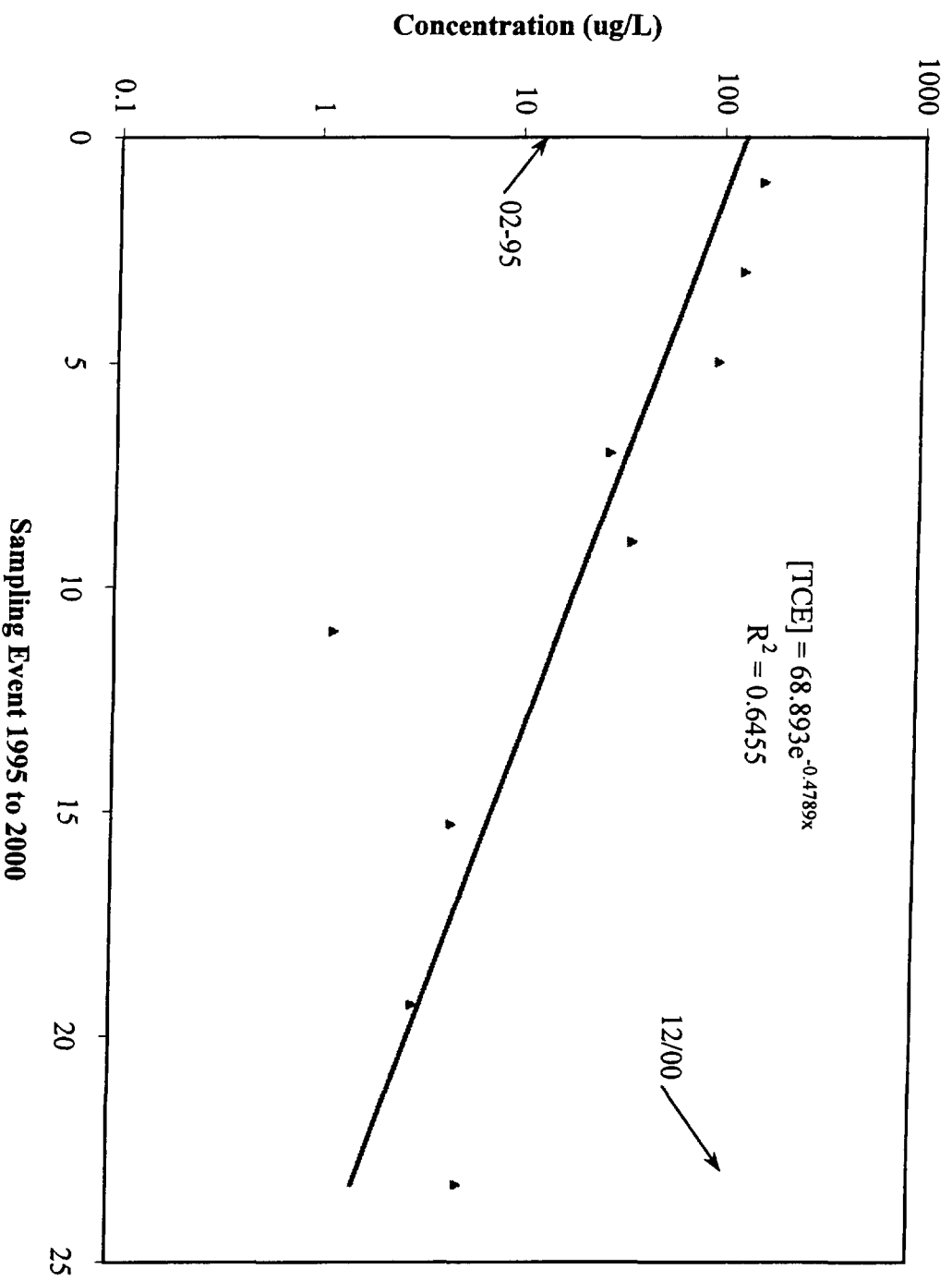
# Appendix Concentrations of TCE in DM605-290 Over Time



# Appendix Concentrations of TCE in DM502-79 Over Time

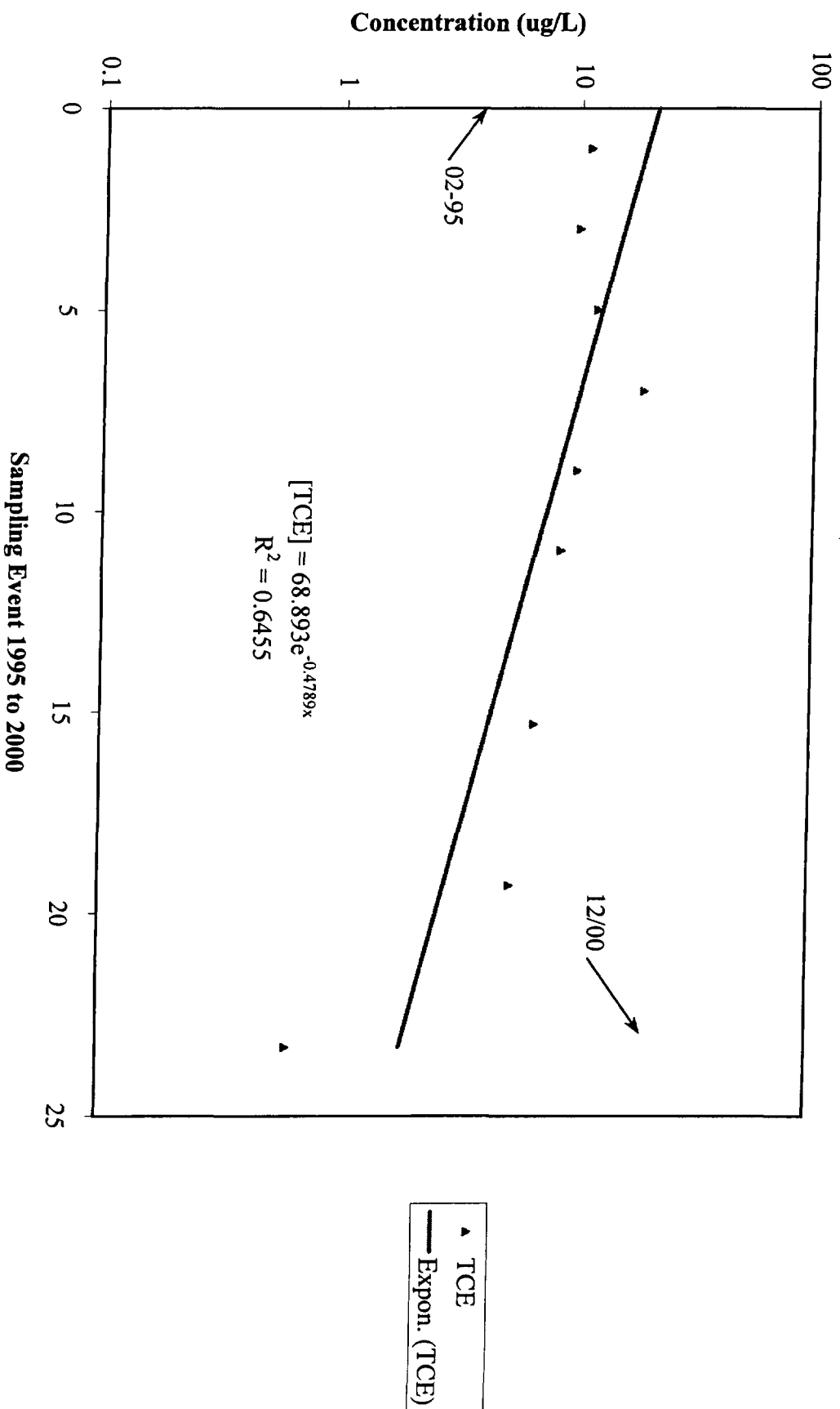


# Appendix Concentrations of TCE in DM502-119 Over Time

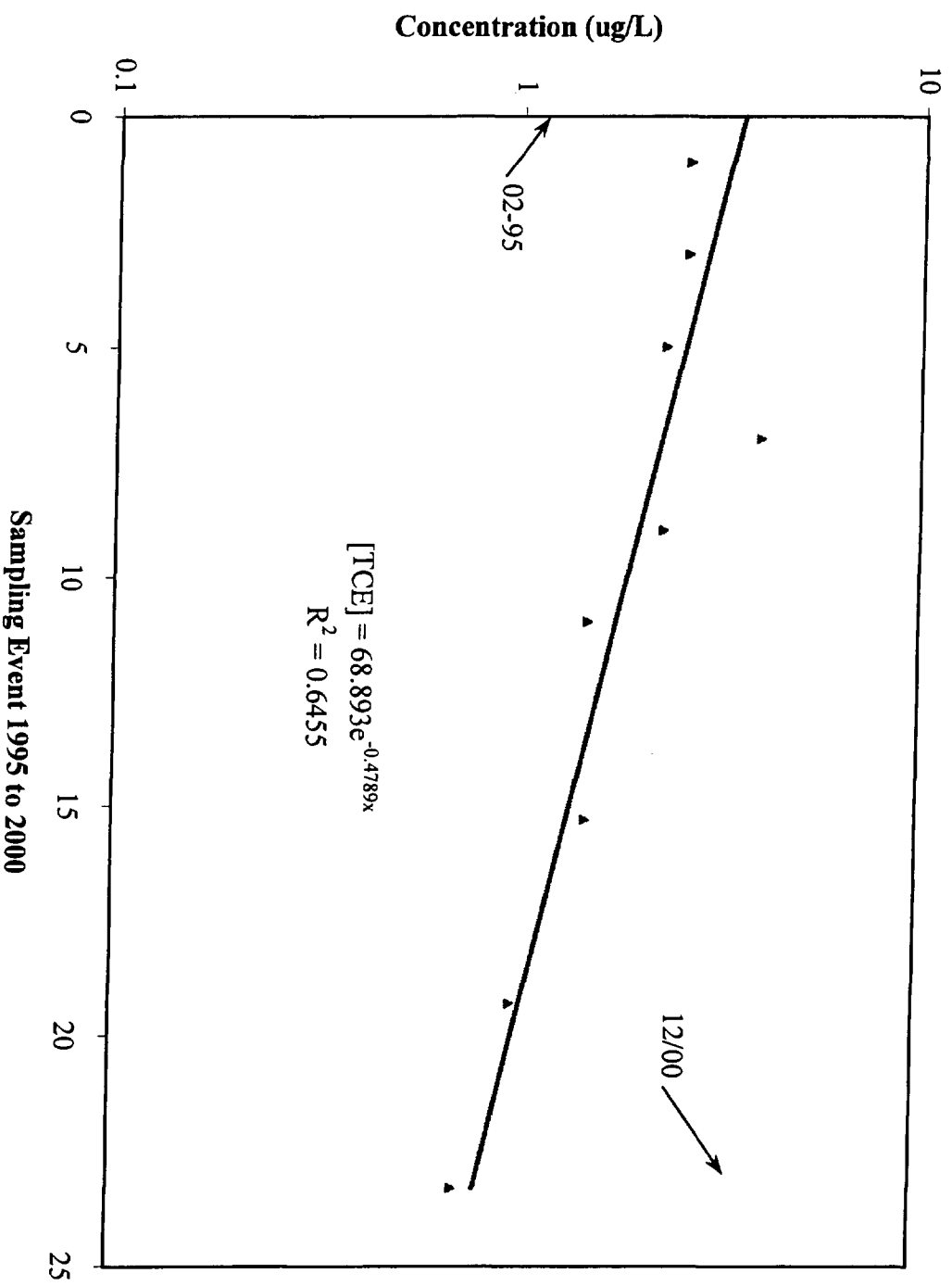


▲ TCE  
— Expon. (TCE)

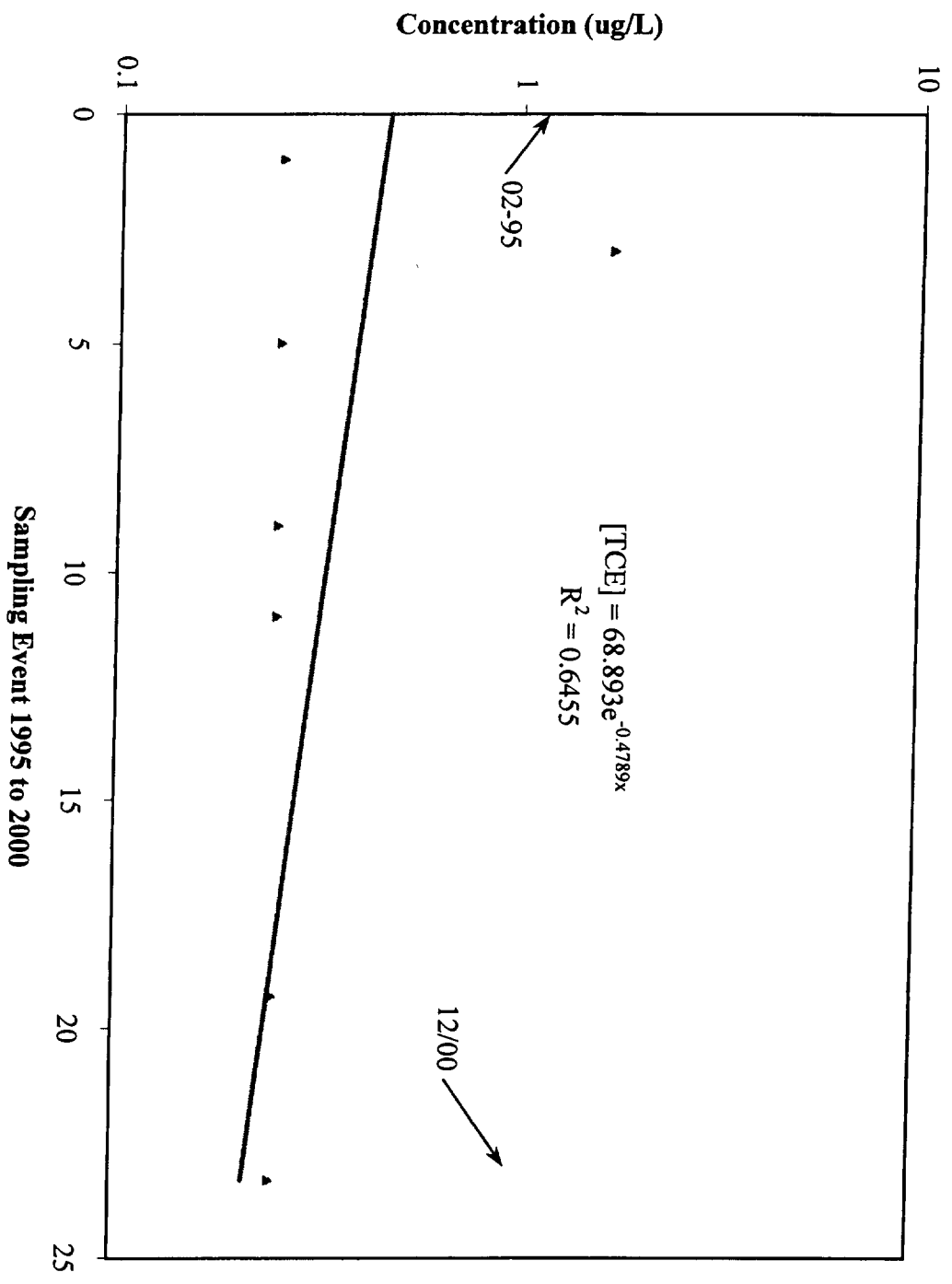
# Appendix Concentrations of TCE in DM502-161 Over Time



# Appendix Concentrations of TCE in DM502-240 Over Time

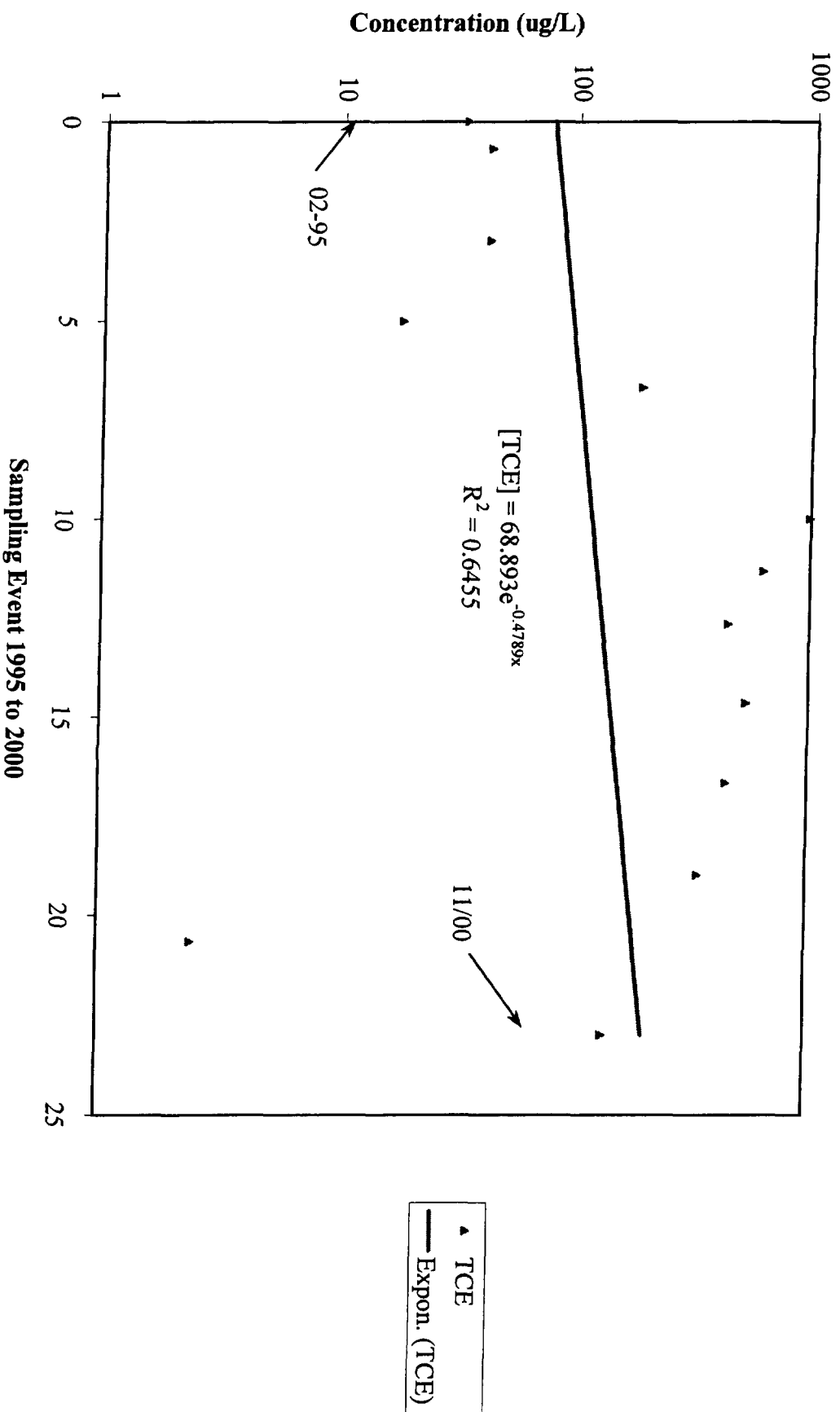


# Appendix Concentrations of TCE in DM502-335 Over Time



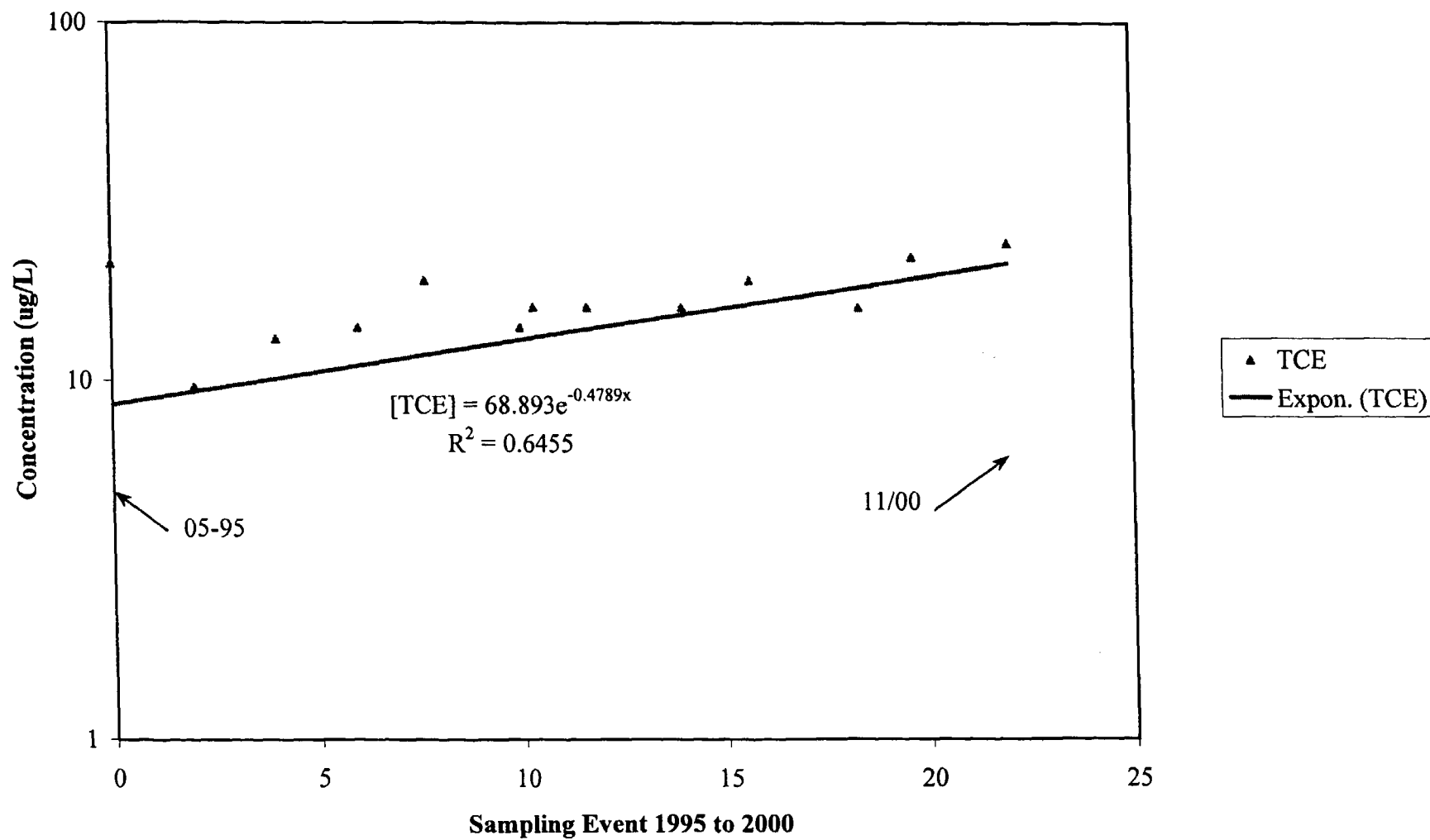
▲ TCE  
— Expon. (TCE)

# Appendix Concentrations of TCE in DM125-125 Over Time

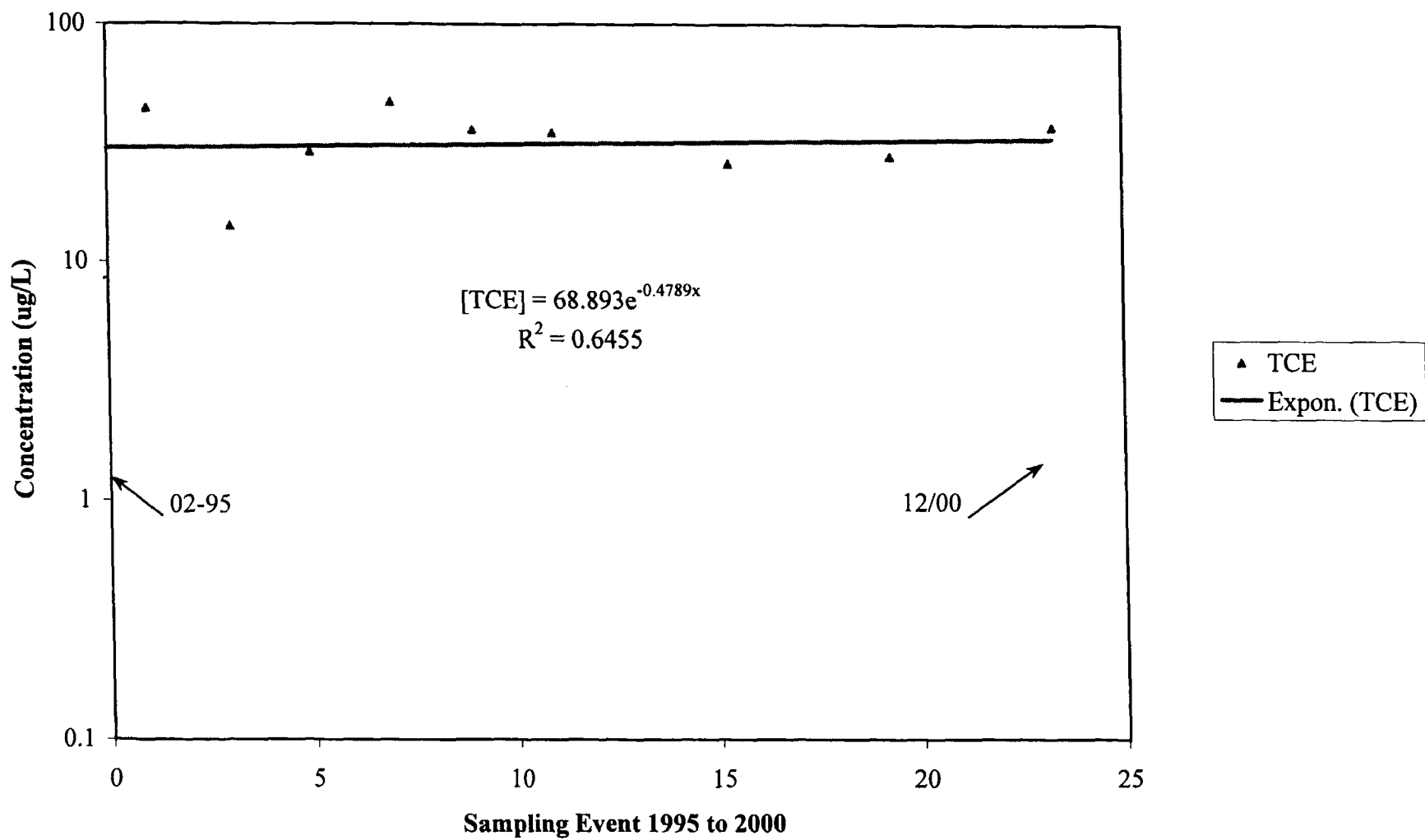


# Appendix

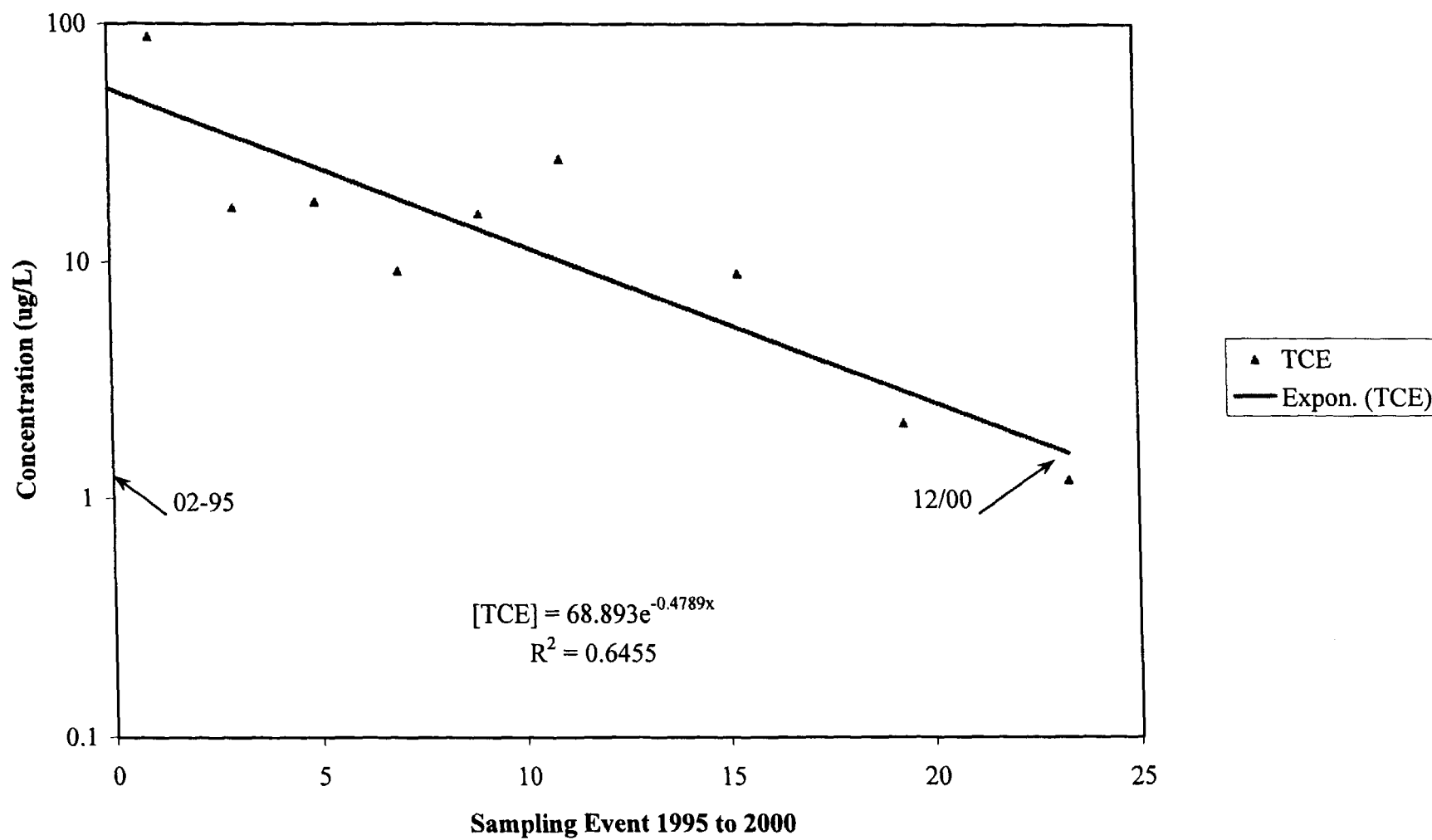
## Concentrations of TCE in EW18 Over Time



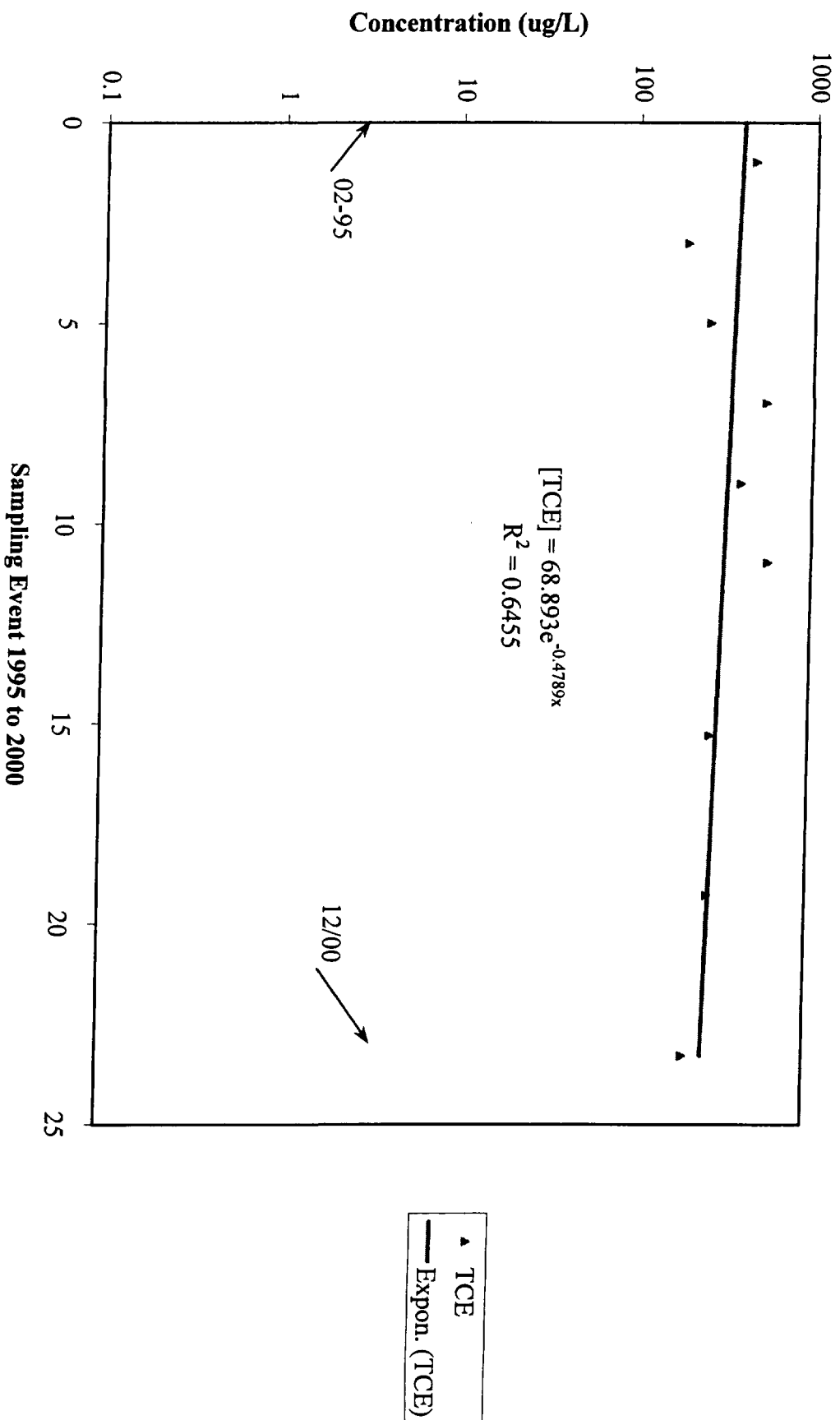
**Appendix**  
**Concentrations of TCE in DM705 Over Time**



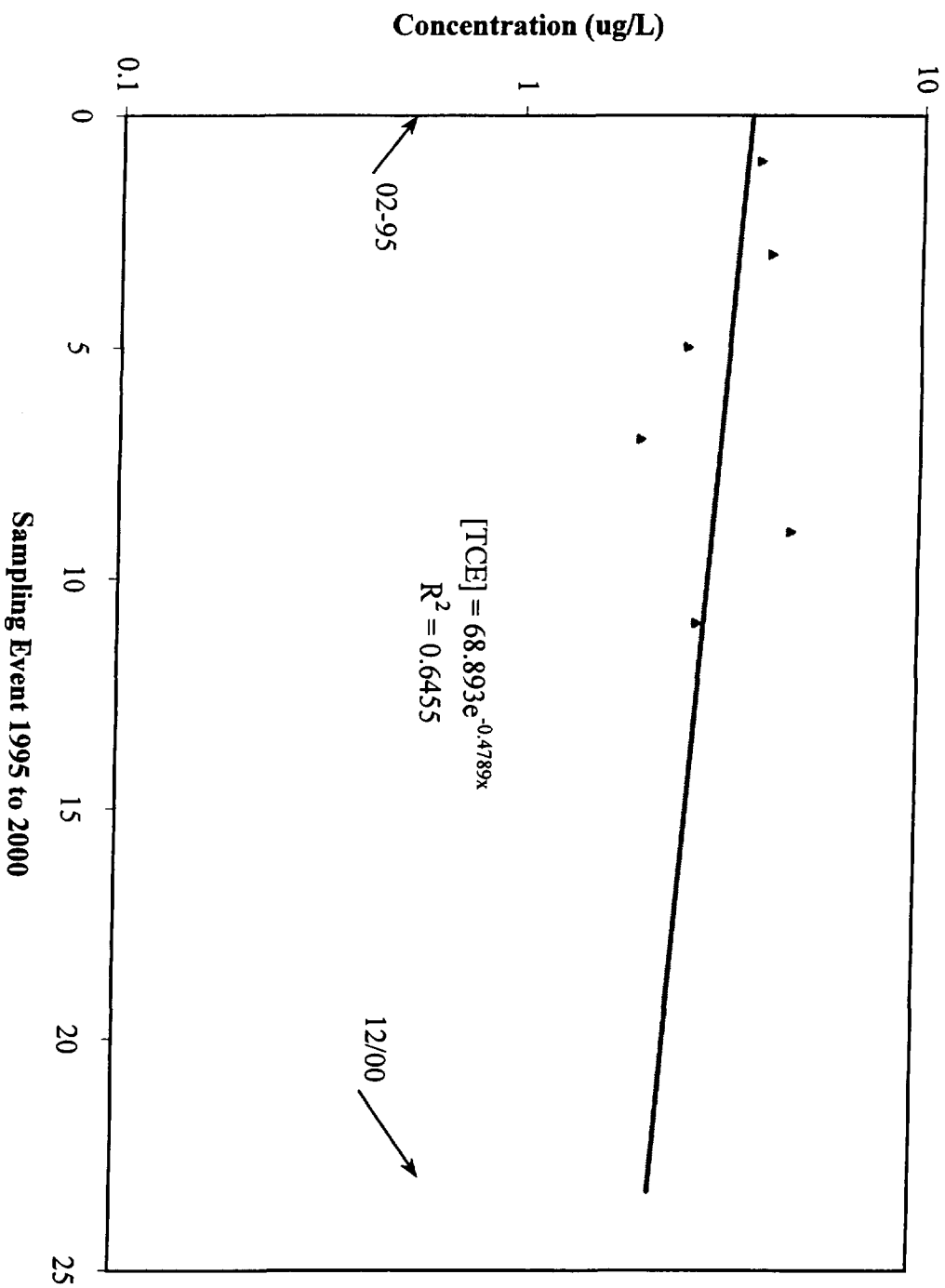
**Appendix**  
**Concentrations of TCE in DM714 Over Time**



# Appendix Concentrations of TCE in DM724 Over Time



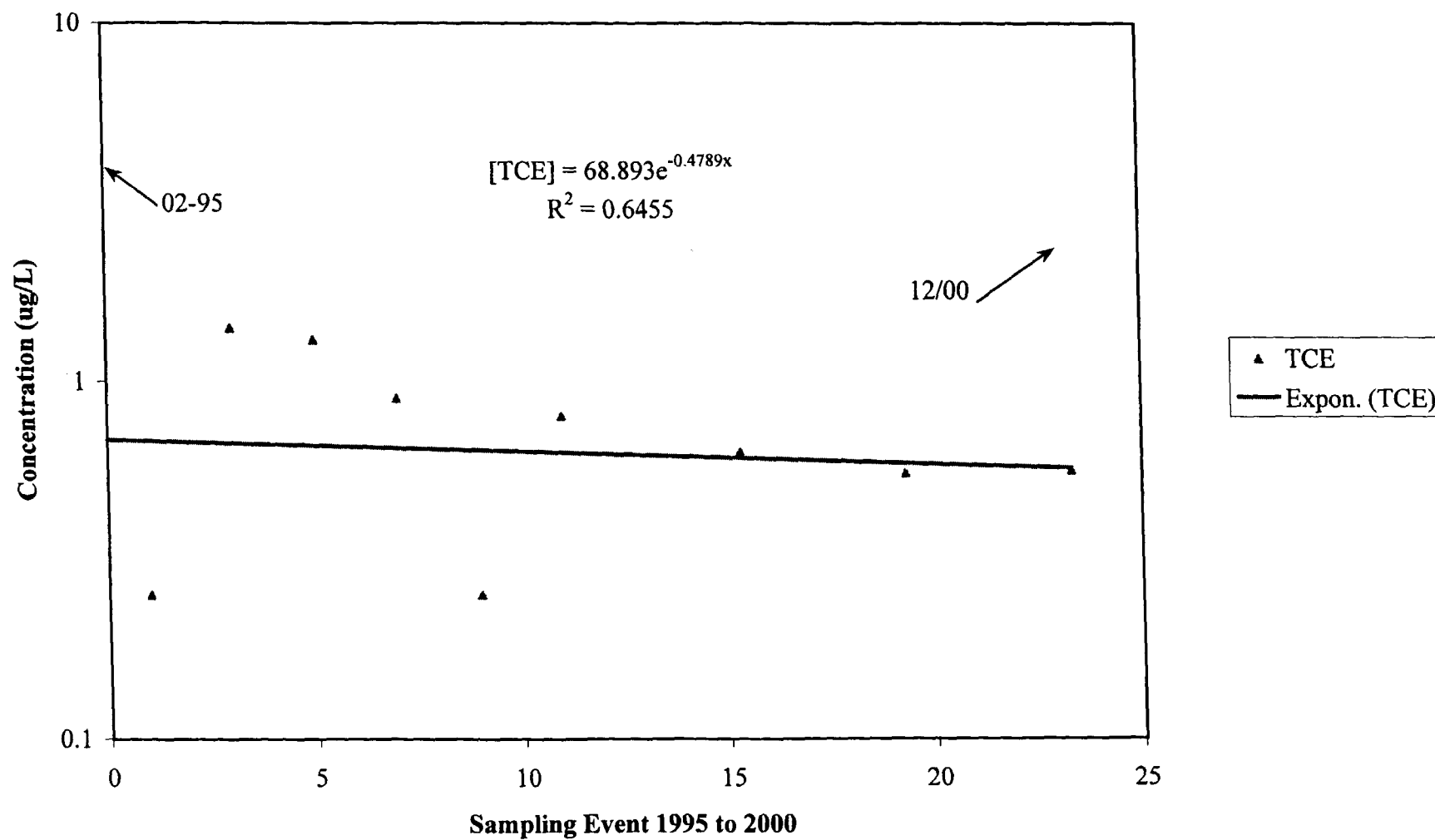
# Appendix Concentrations of TCE in DM725 Over Time



▲ TCE  
— Expon. (TCE)

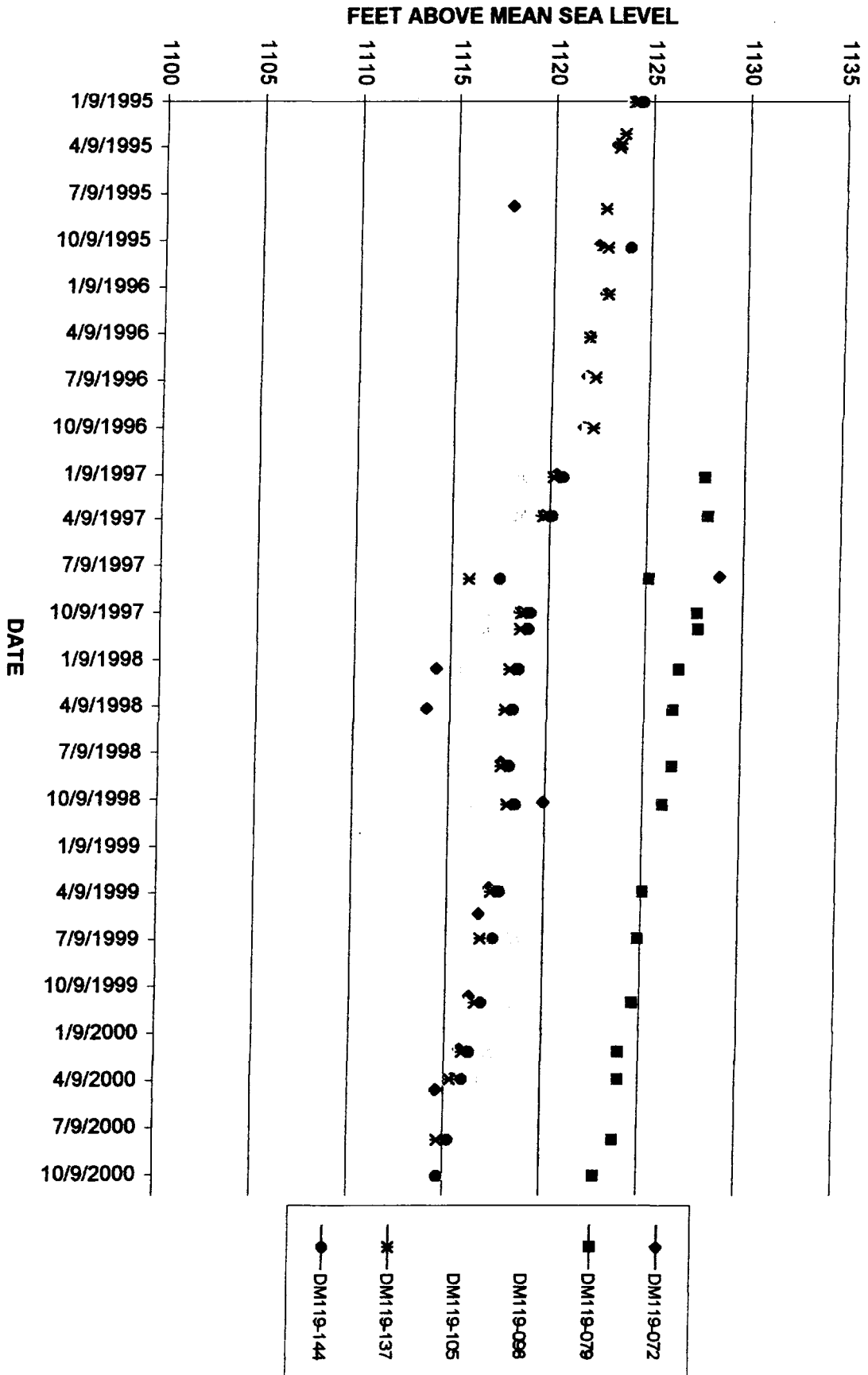
# Appendix

## Concentrations of TCE in DM733 Over Time

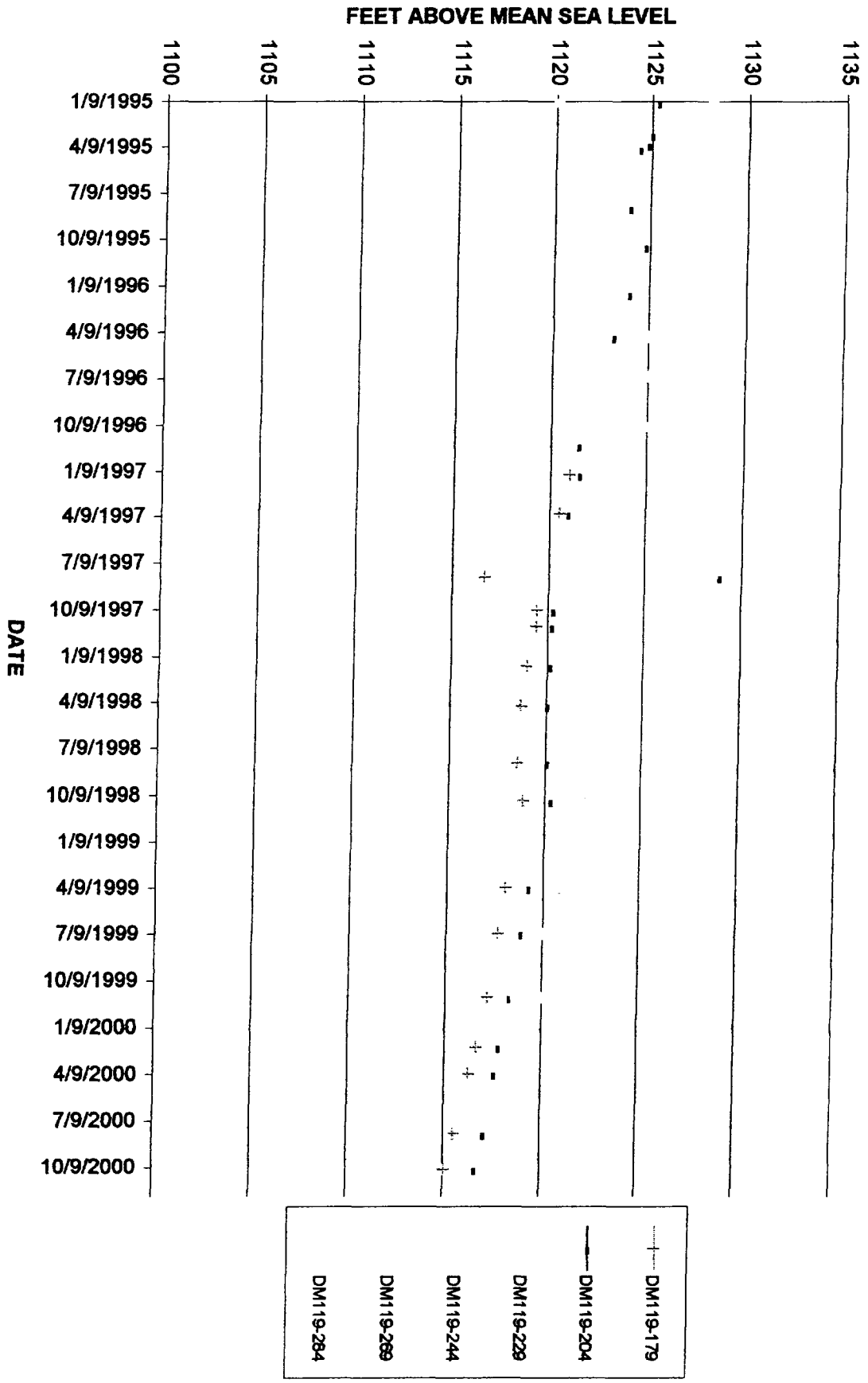


M

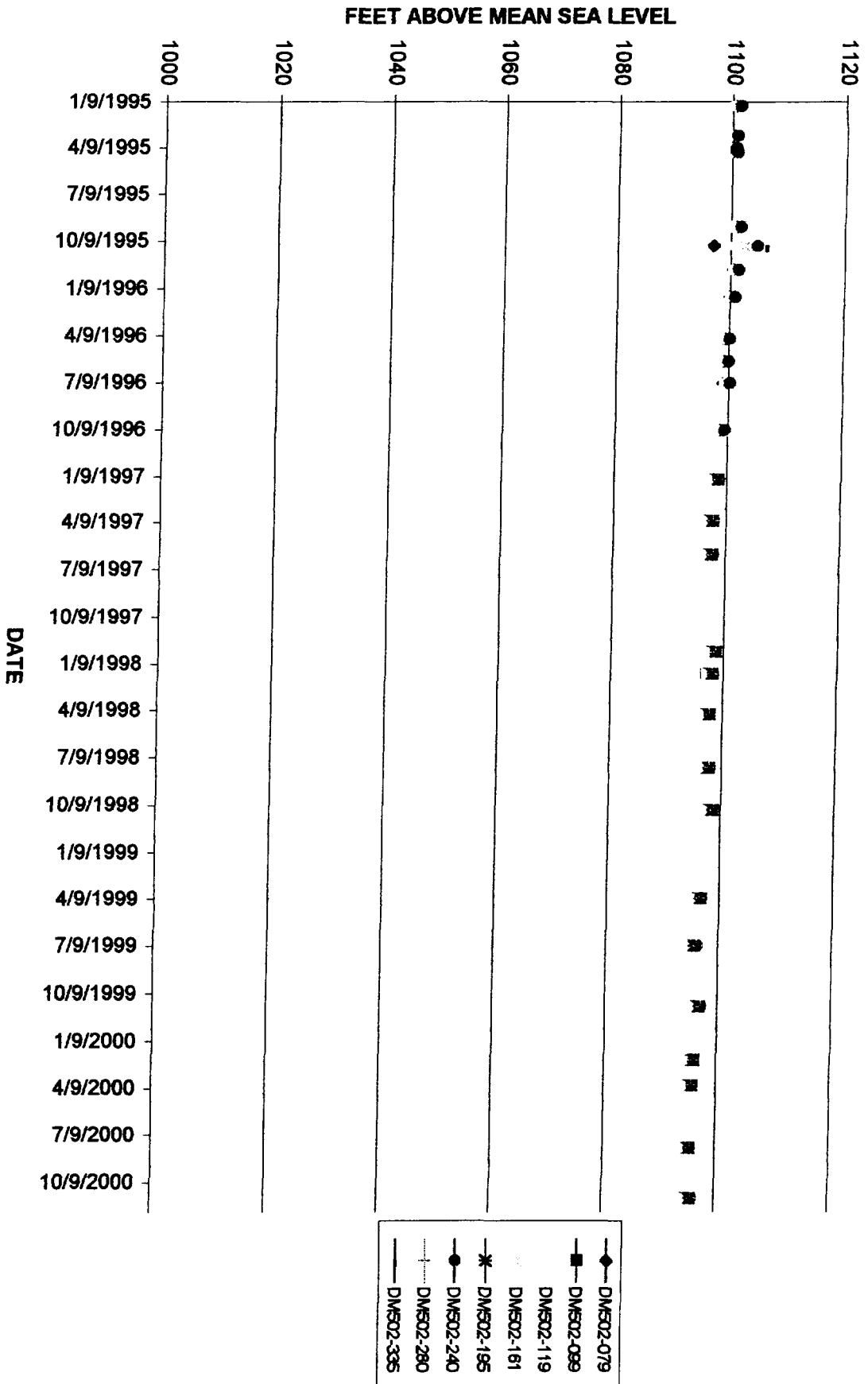
# GROUNDWATER ELEVATIONS VS TIME



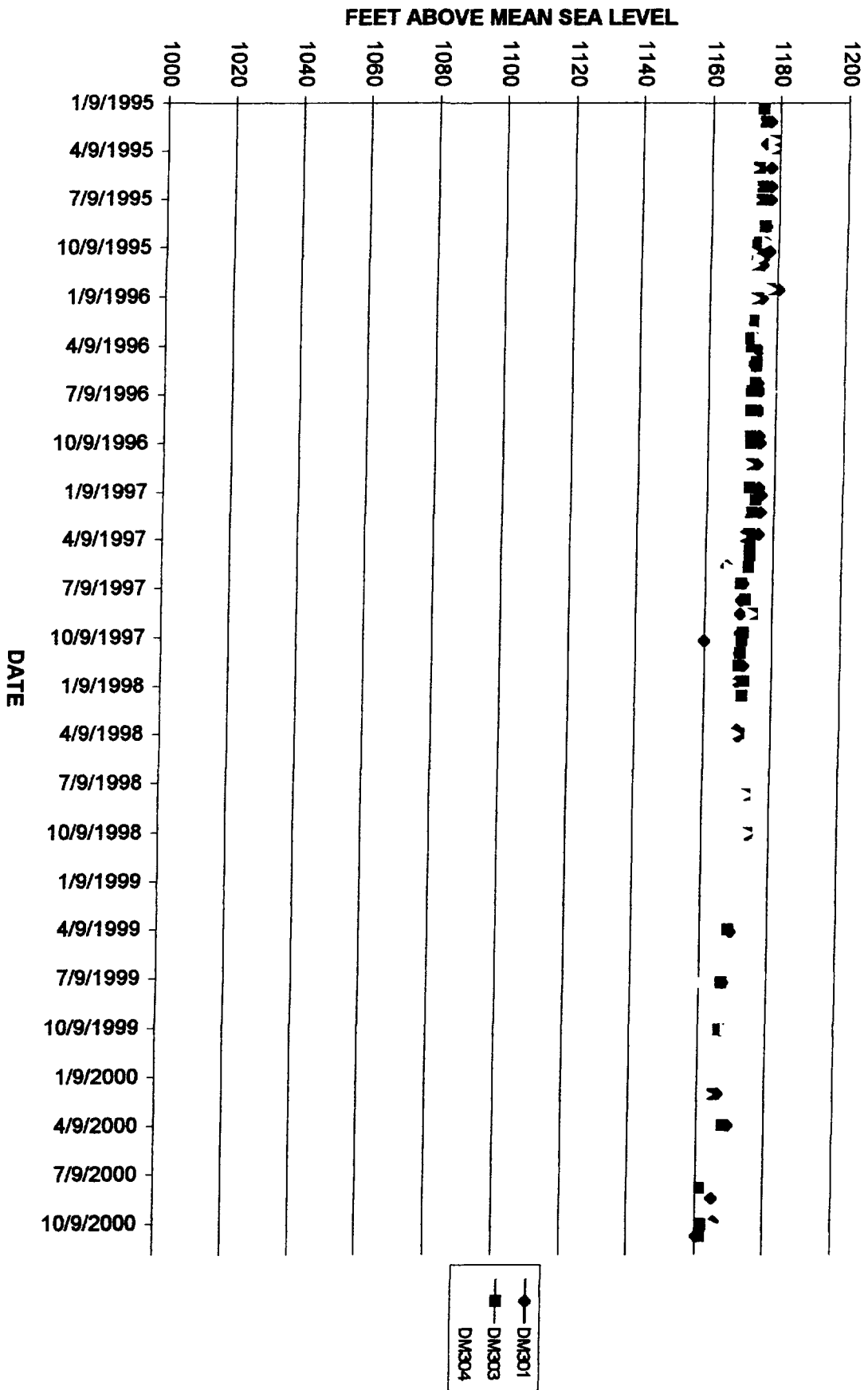
# GROUNDEATER ELEVATIONS VS TIME



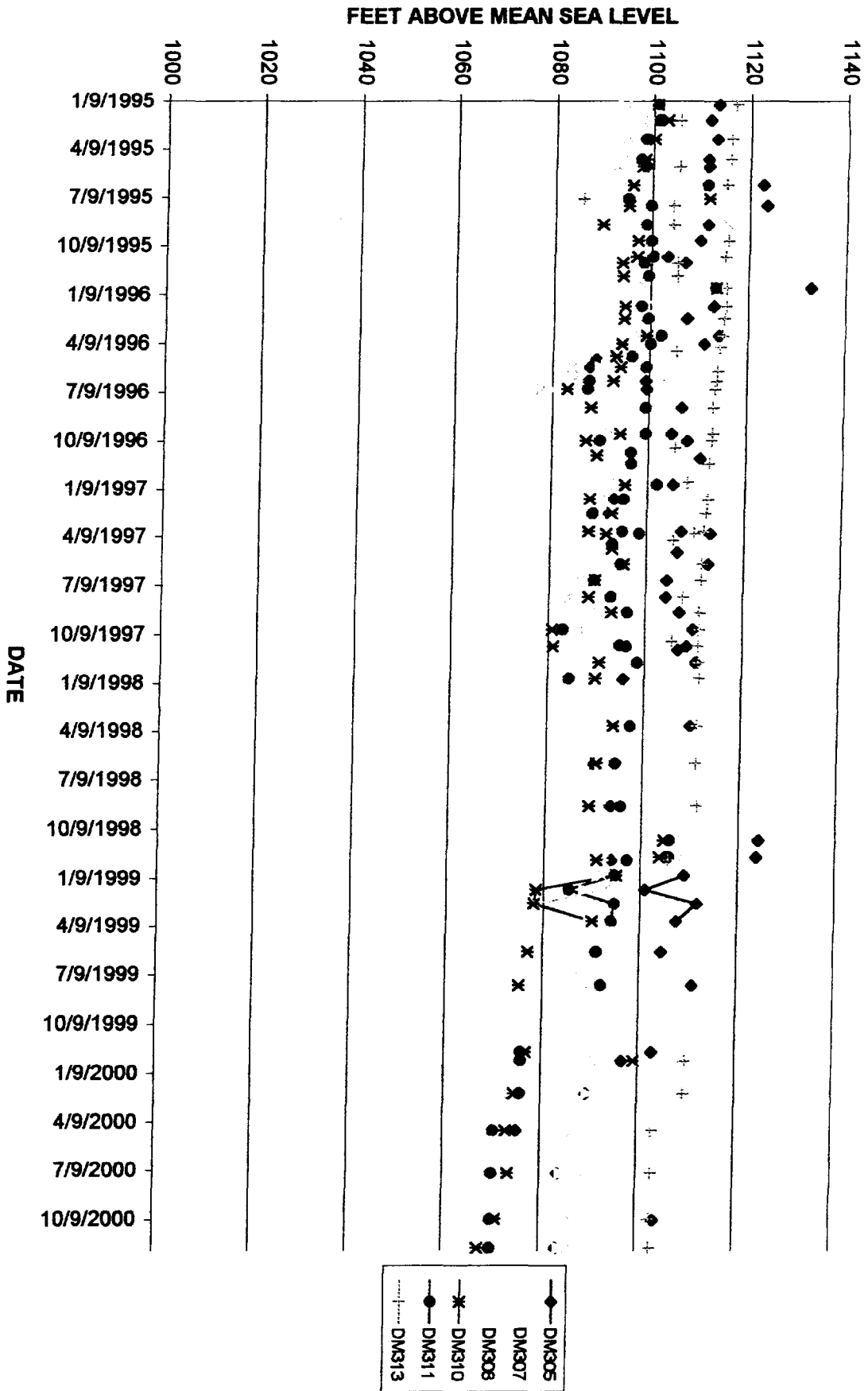
# GROUNDWATER LEVELS VS TIME



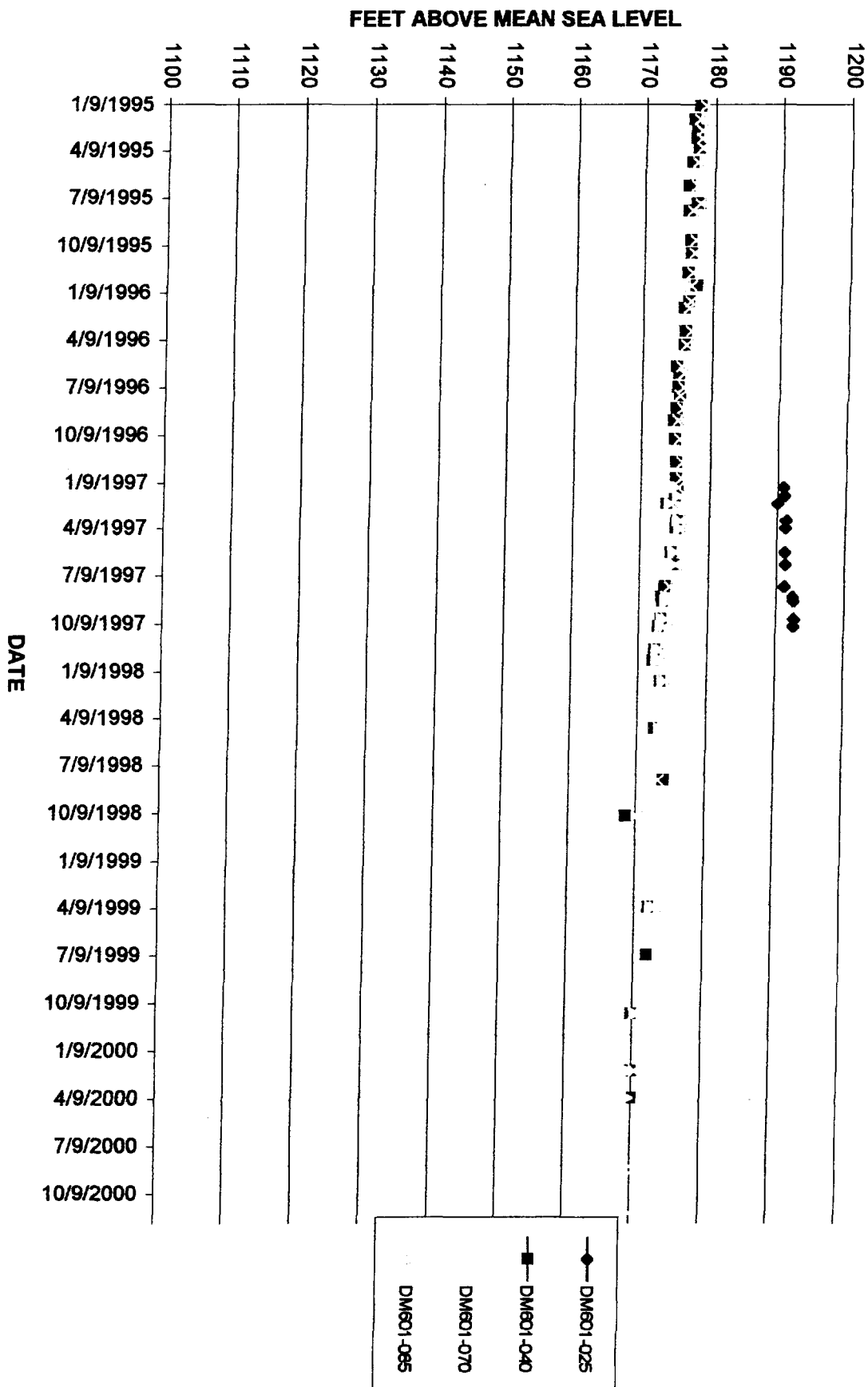
# GROUNDWATER LEVELS VS TIME



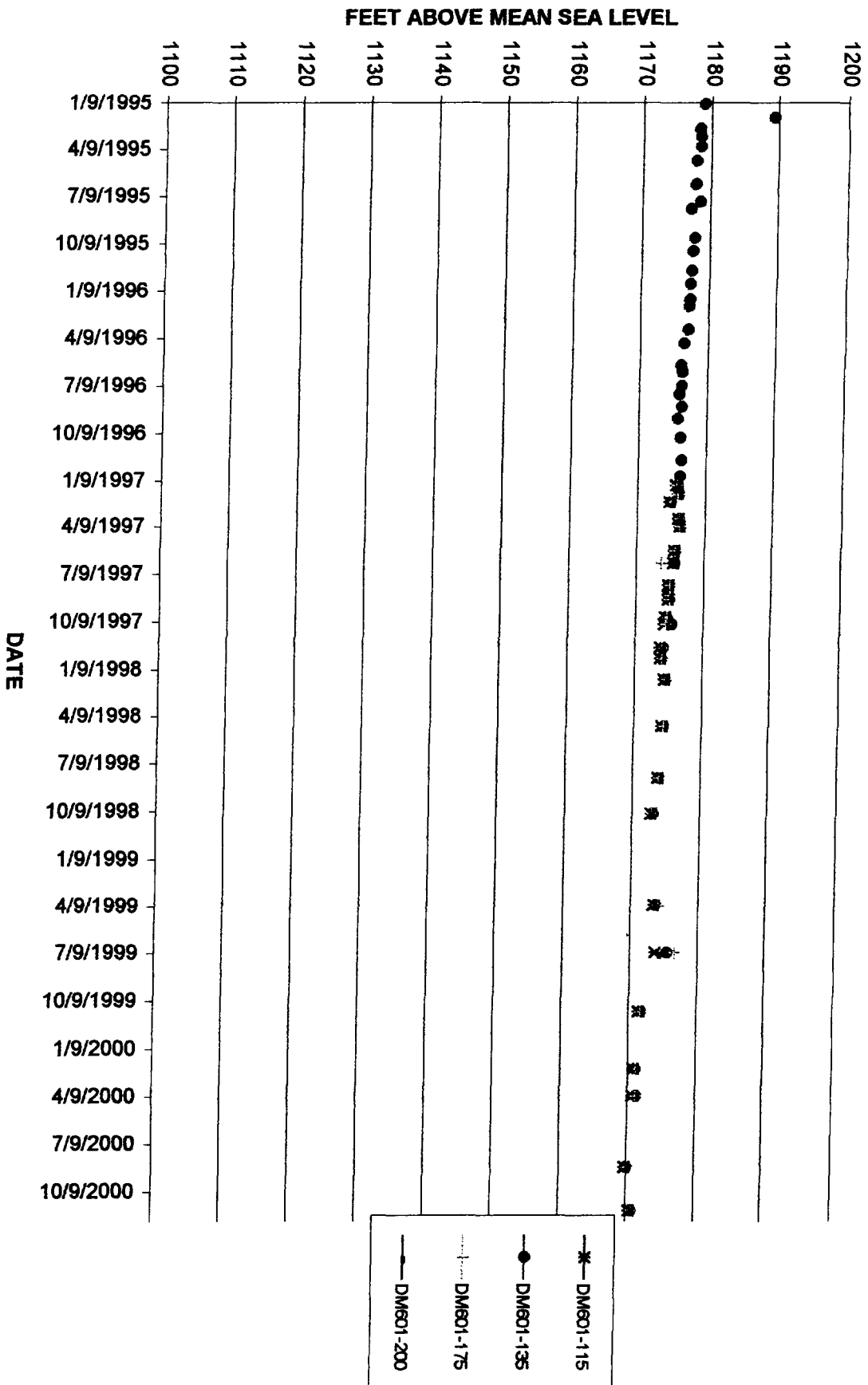
# GROUNDWATER LEVELS VS TIME



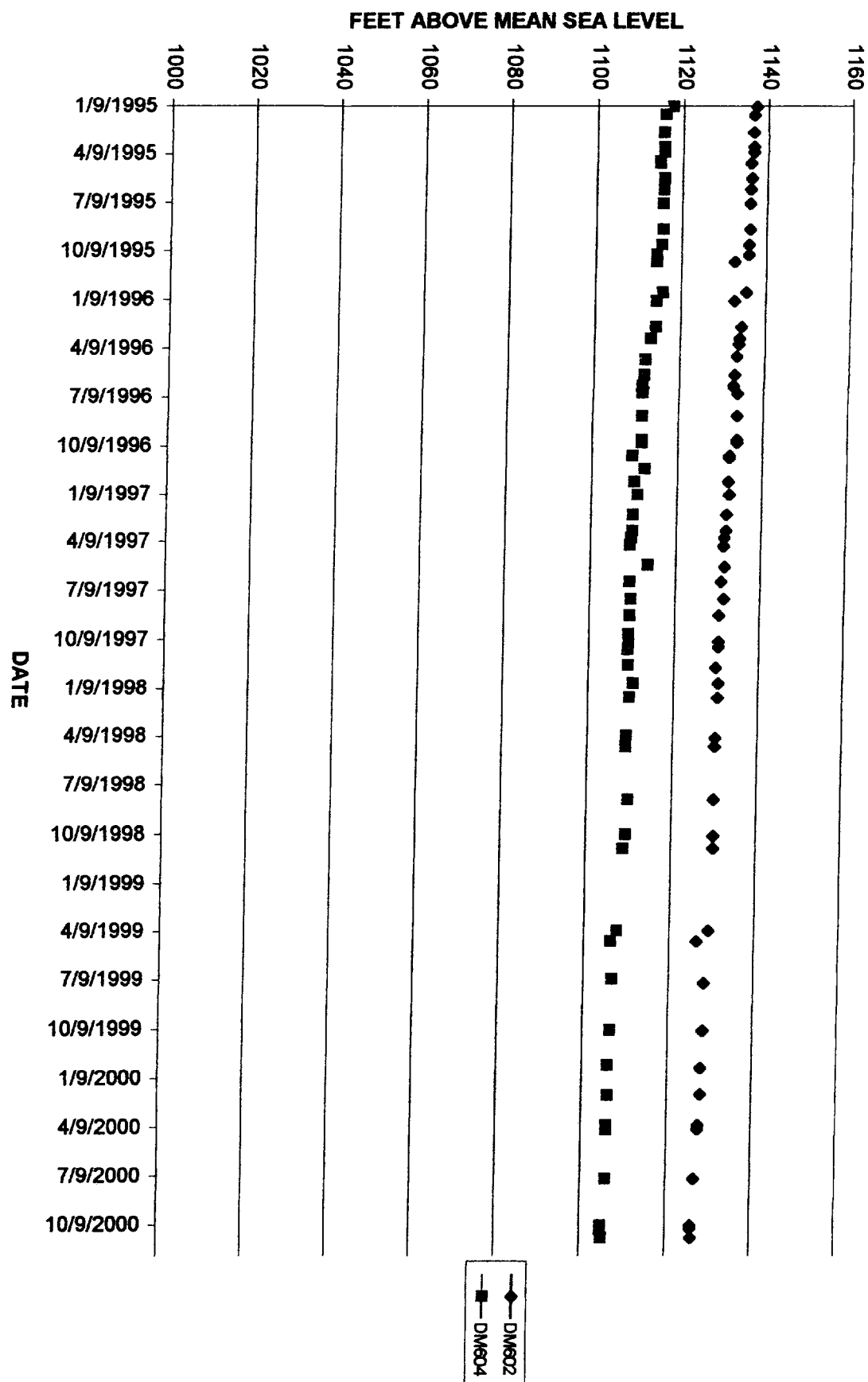
# GROUNDWATER LEVELS VS TIME



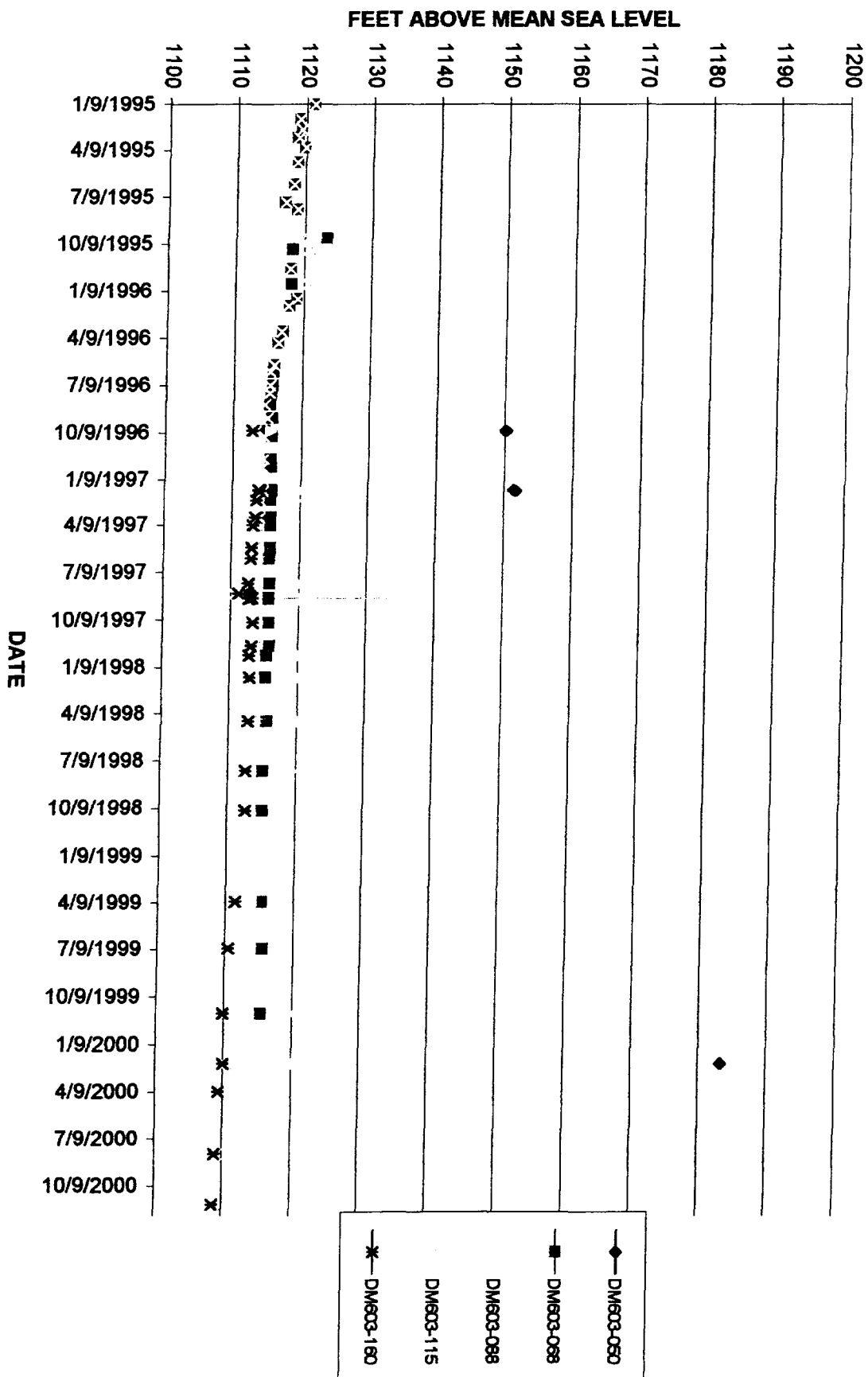
# GROUNDWATER LEVELS VS TIME



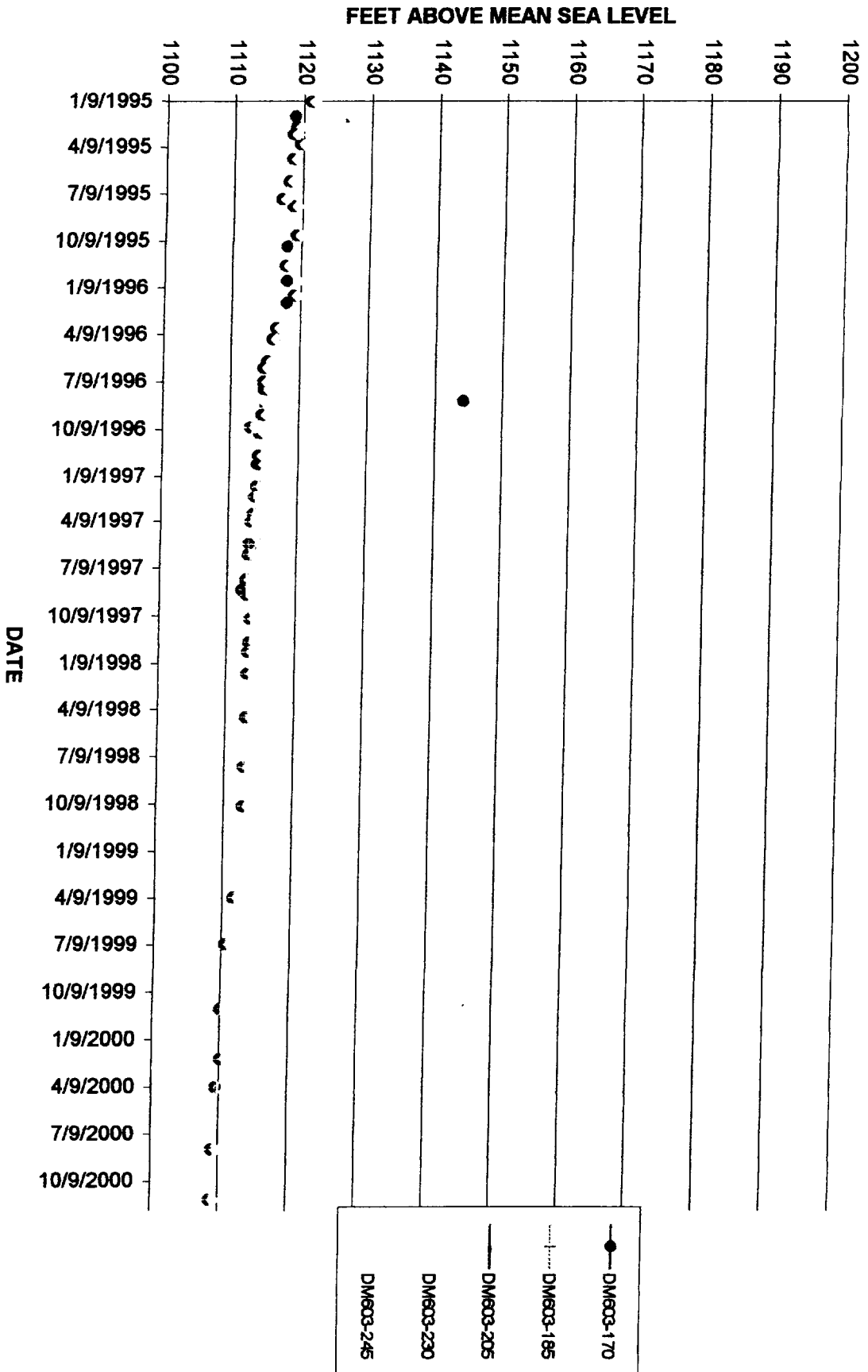
# GROUNDWATER LEVELS VS TIME



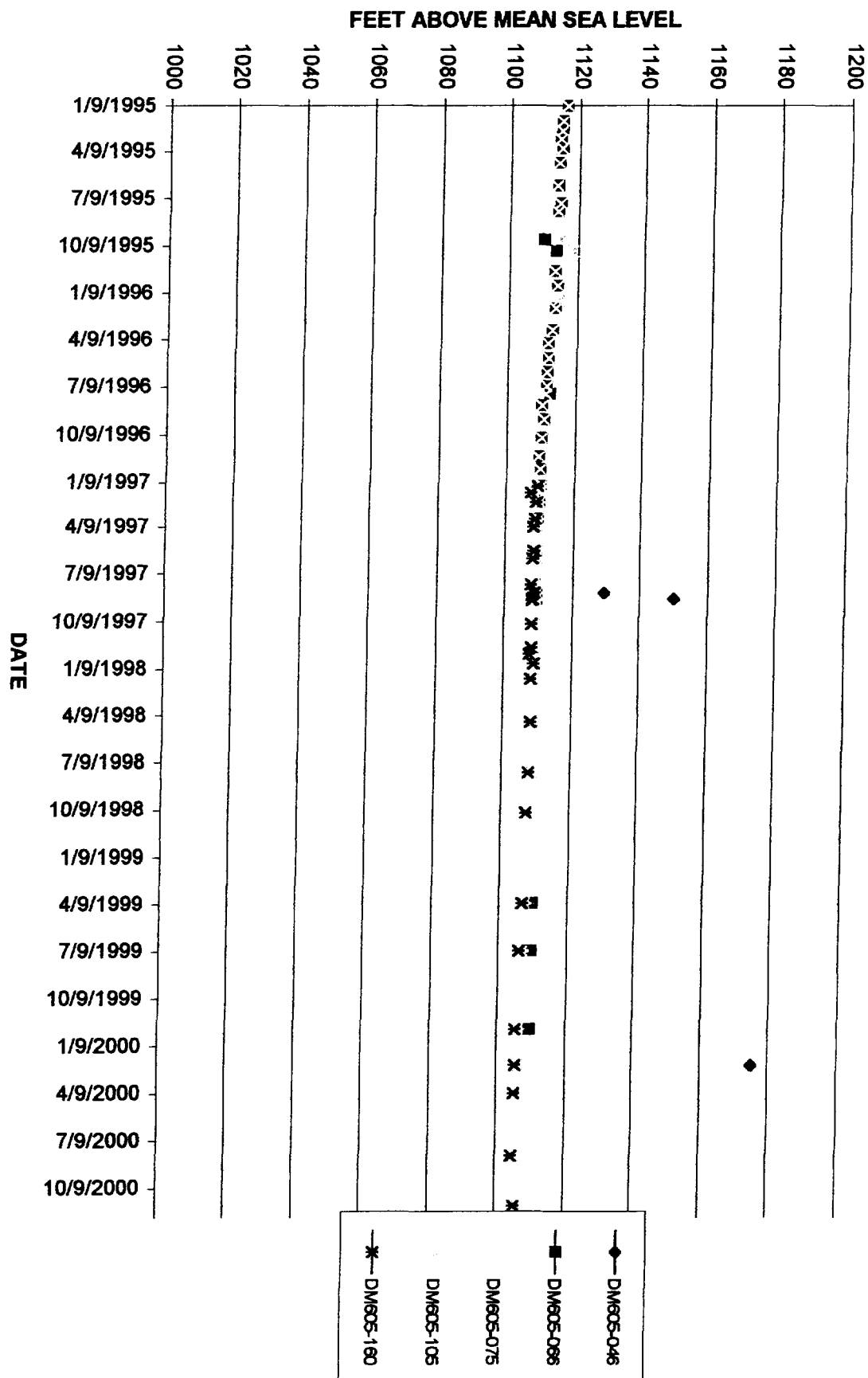
# GROUNDWATER LEVELS VS TIME



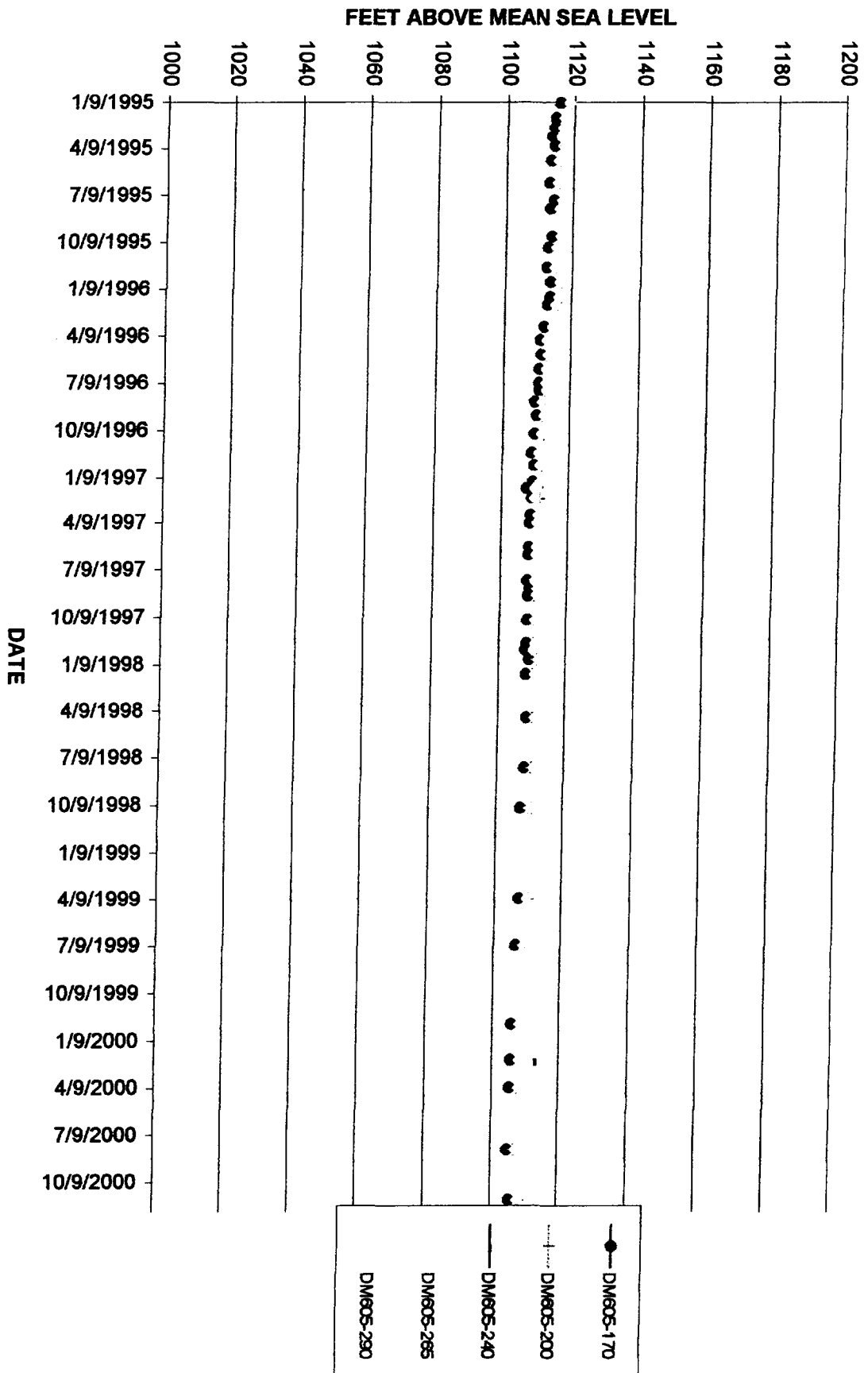
# GROUNDWATER LEVELS VS TIME



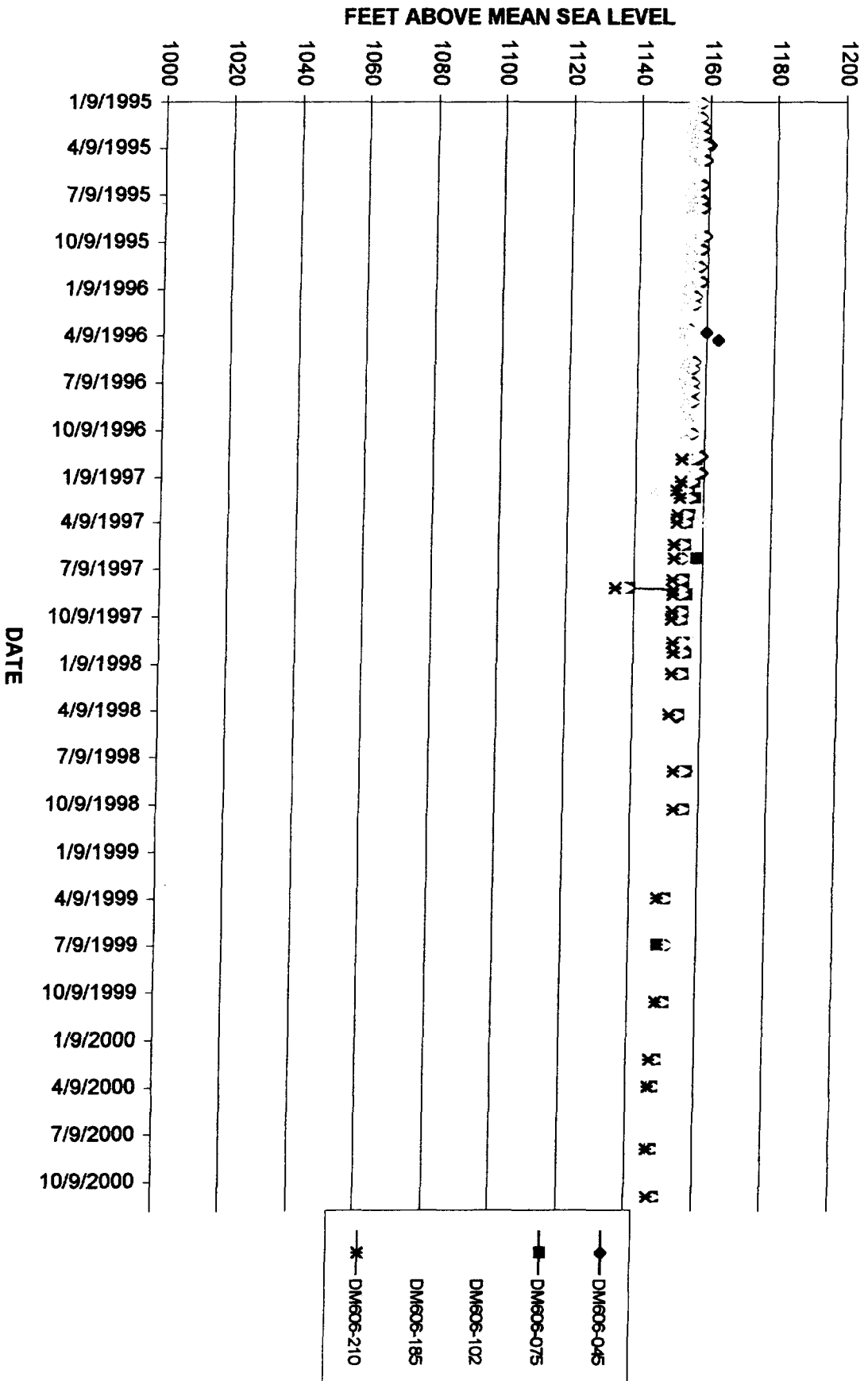
# GROUNDWATER LEVELS VS TIME



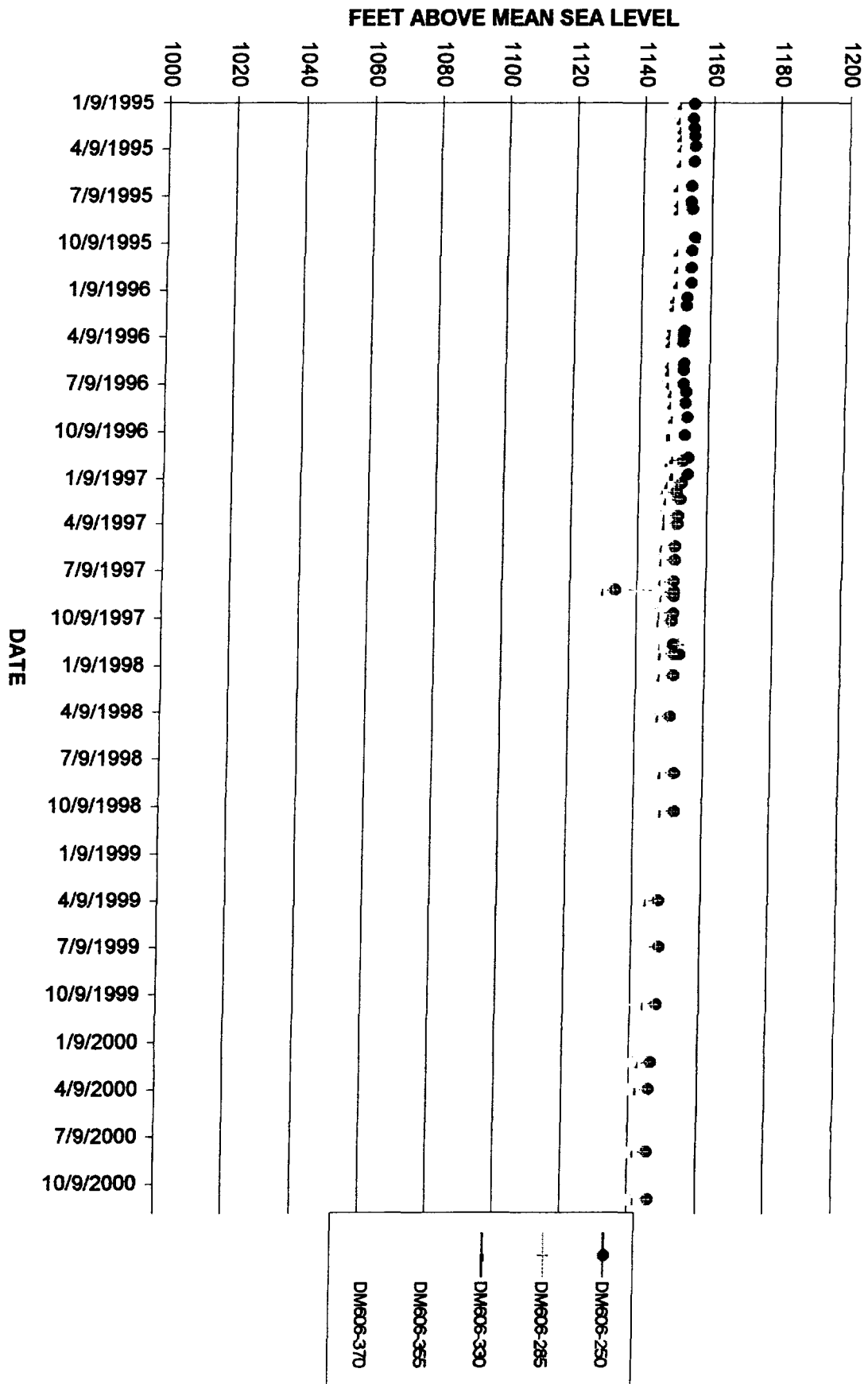
# GROUNDWATER LEVELS VS TIME



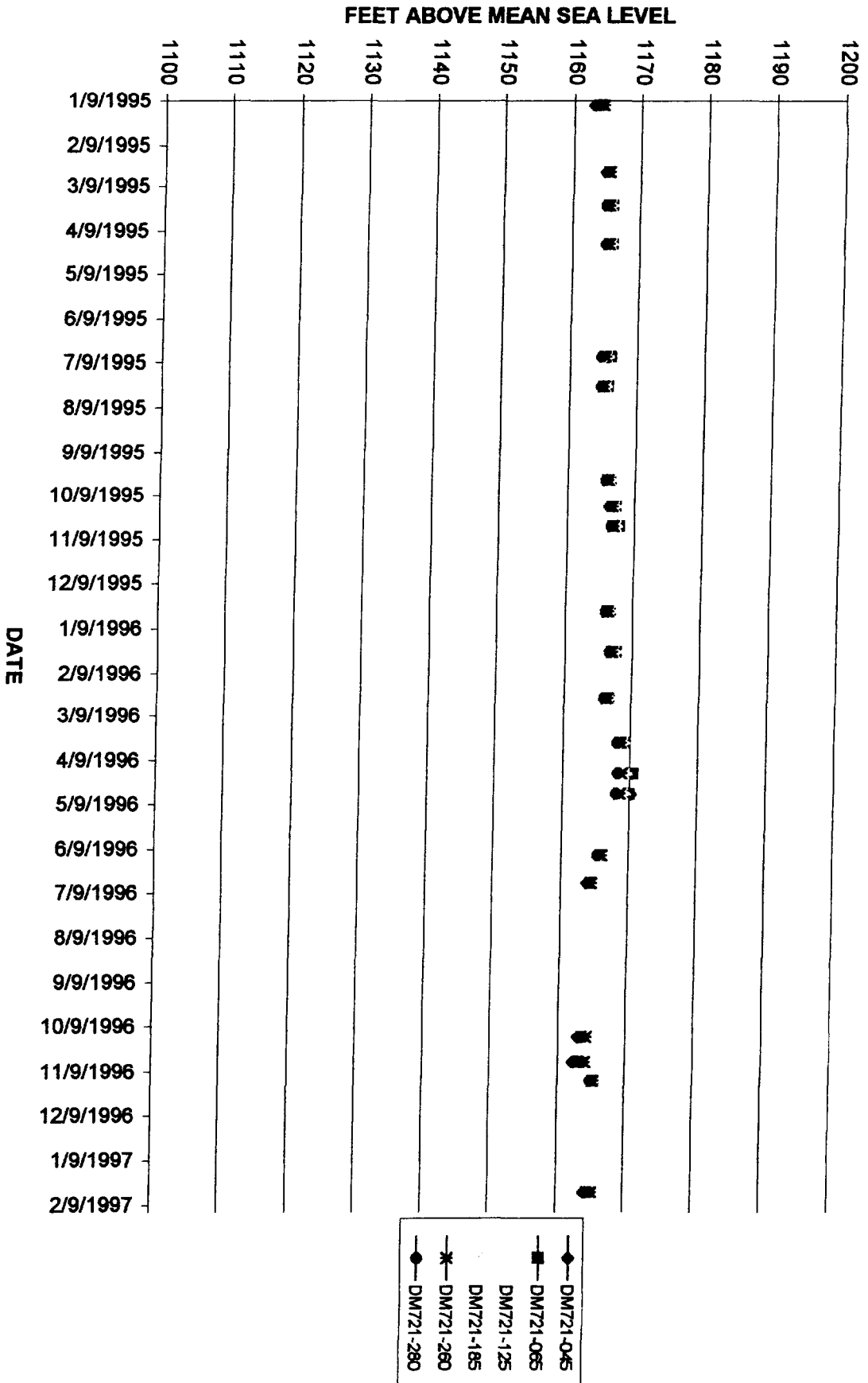
# GROUNDWATER LEVELS VS TIME



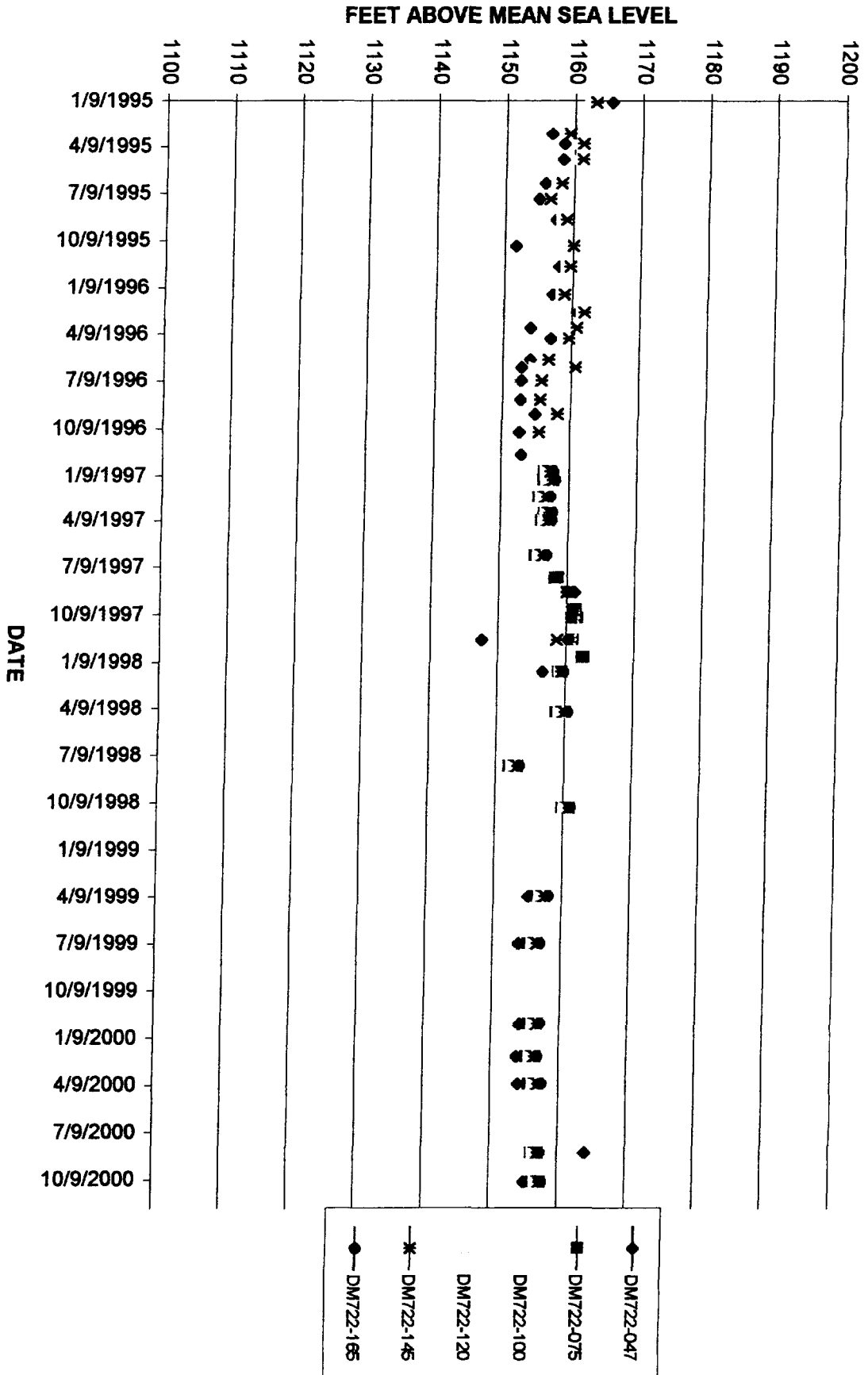
# GROUNDWATER LEVELS VS TIME



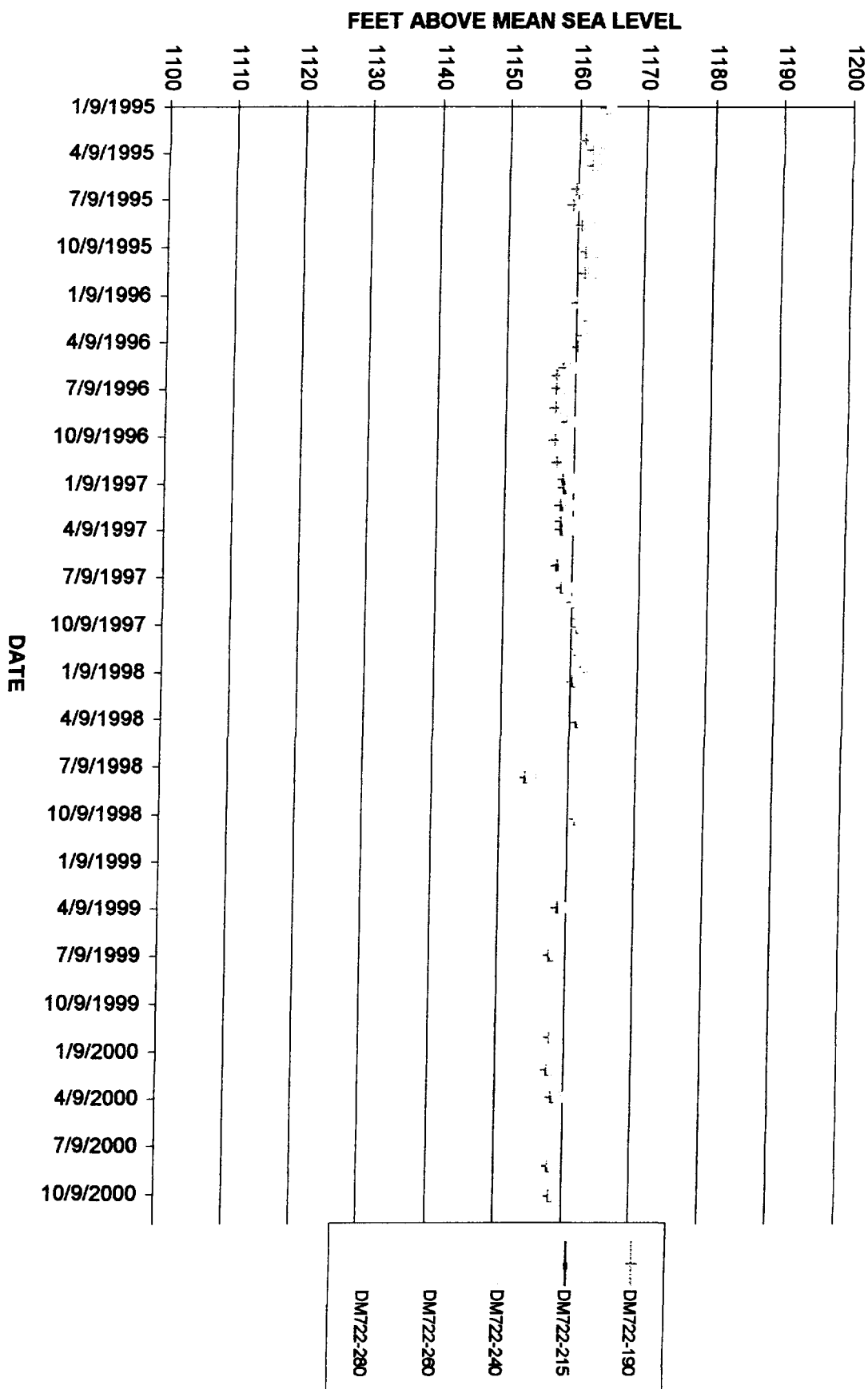
# GROUNDWATER LEVELS VS TIME



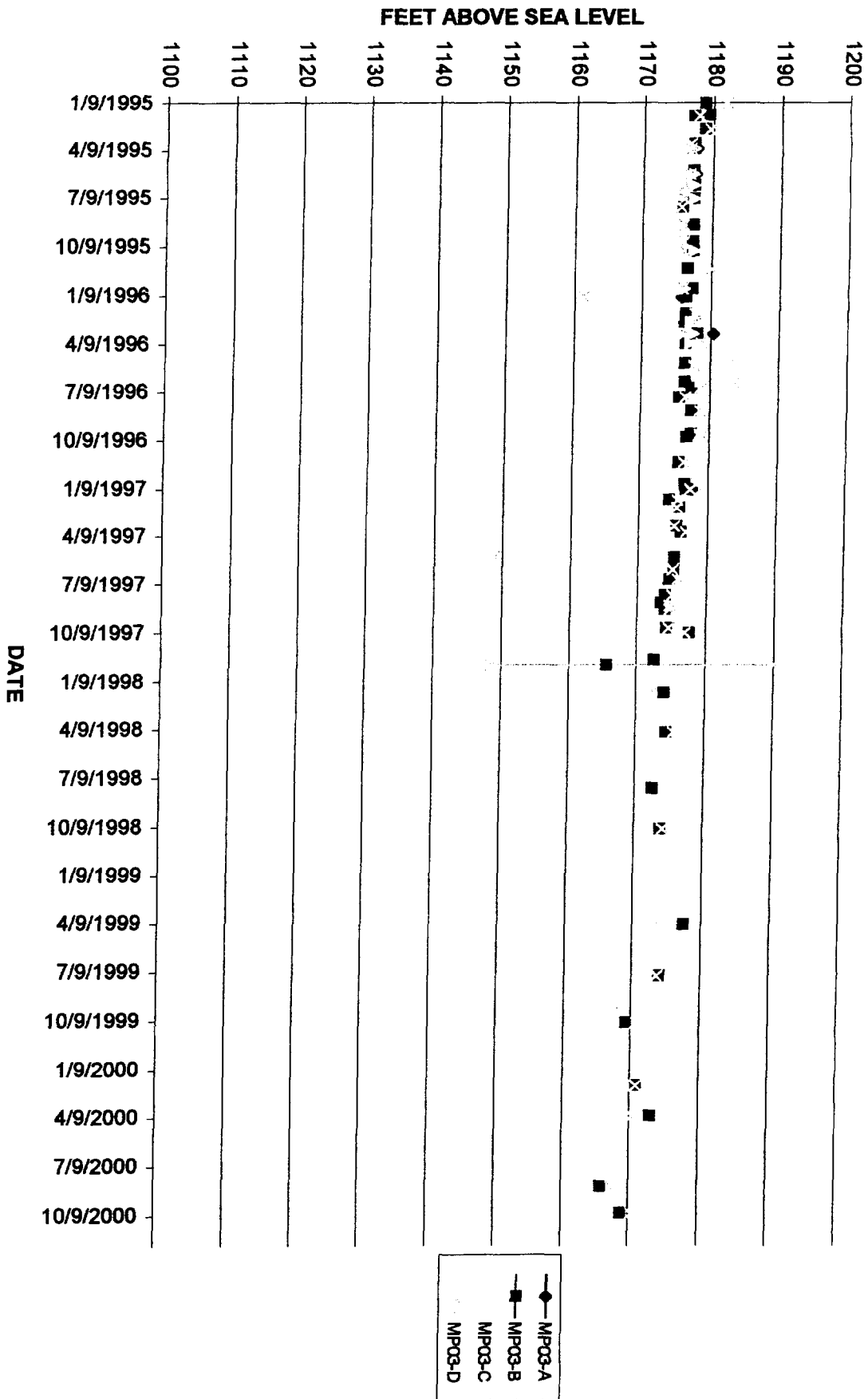
# GROUNDWATER LEVELS VS TIME



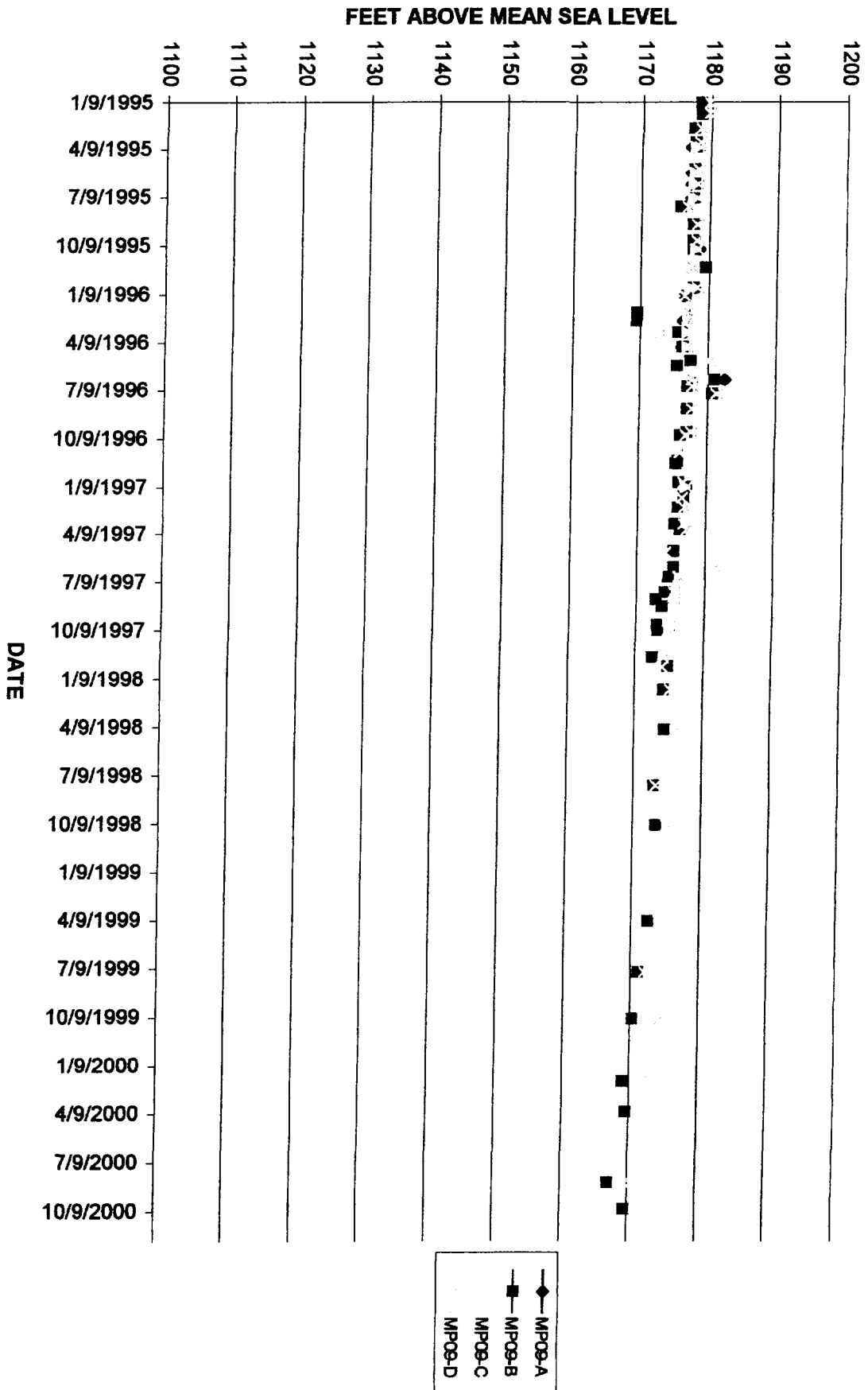
# GROUNDWATER LEVELS VS TIME



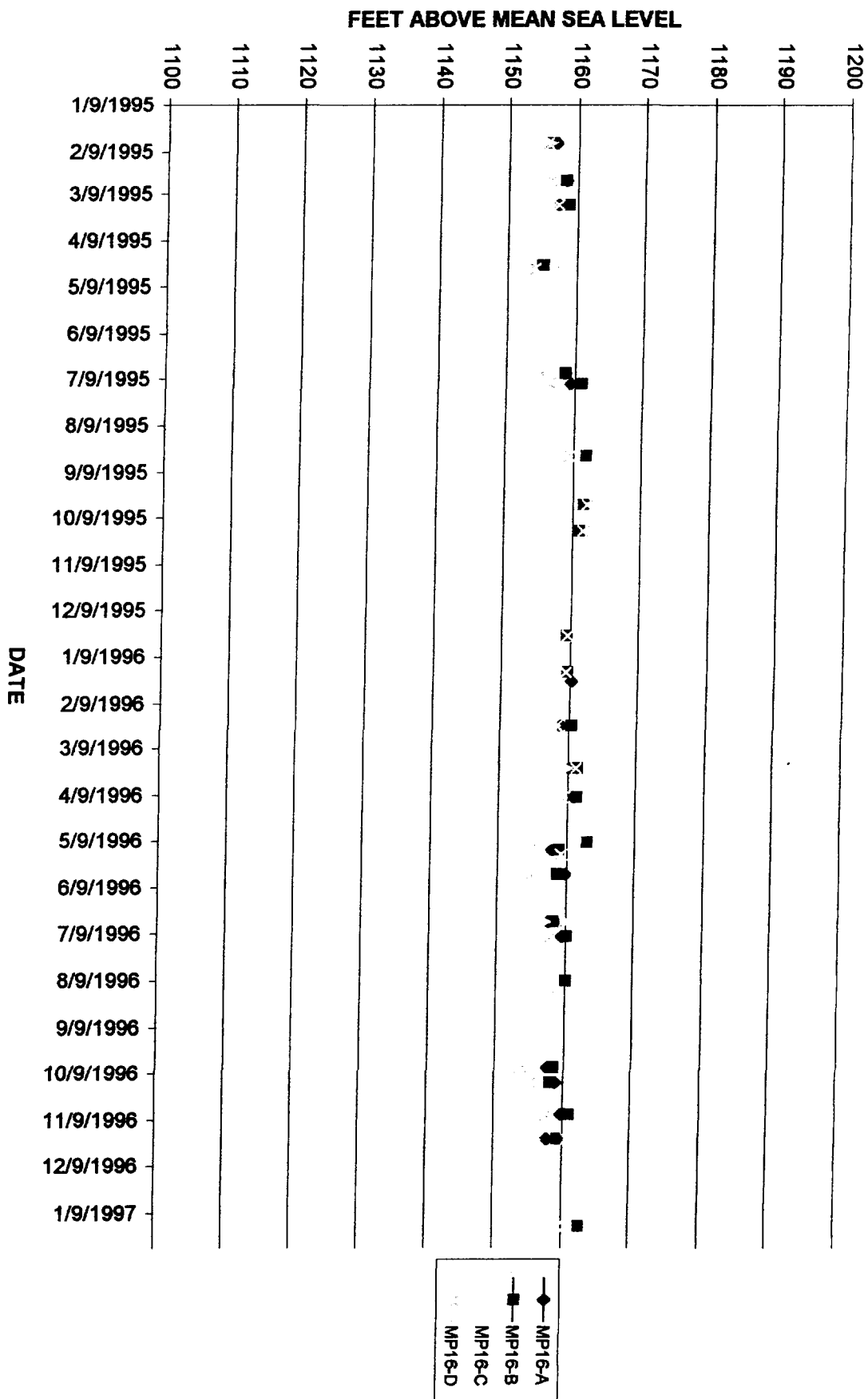
# GROUNDWATER LEVELS VS TIME



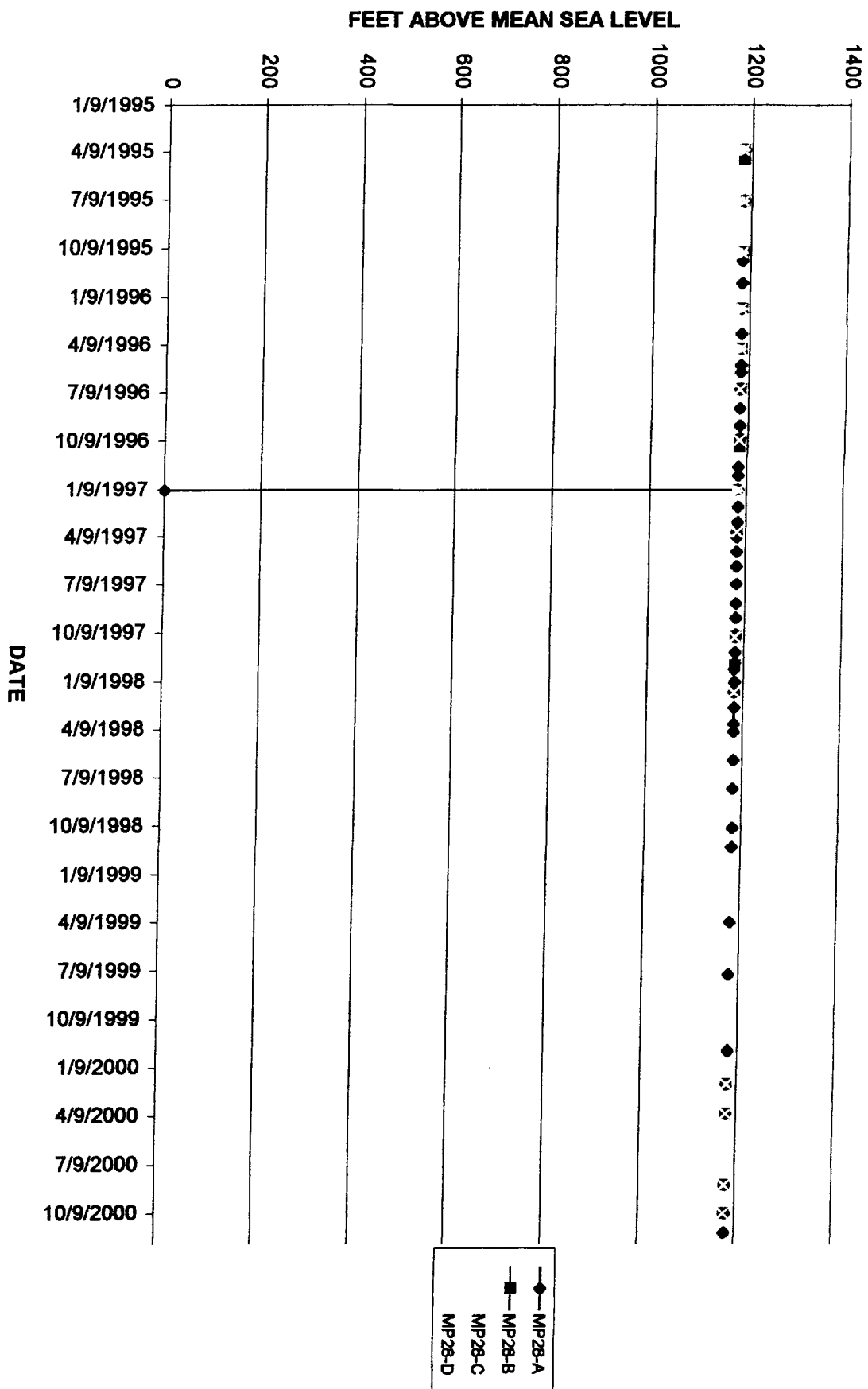
# GROUNDWATER LEVELS VS TIME



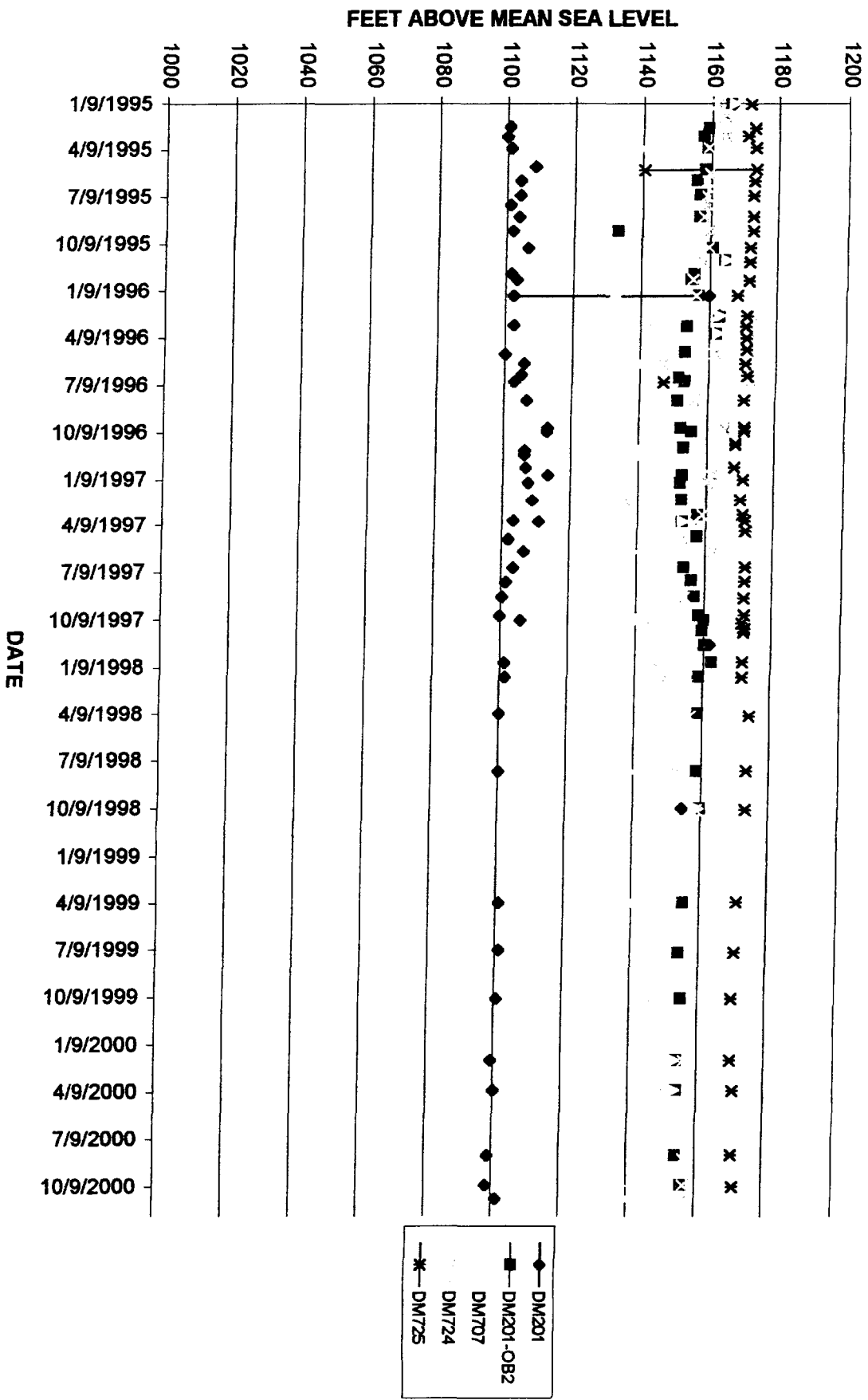
# GROUNDWATER LEVELS VS TIME



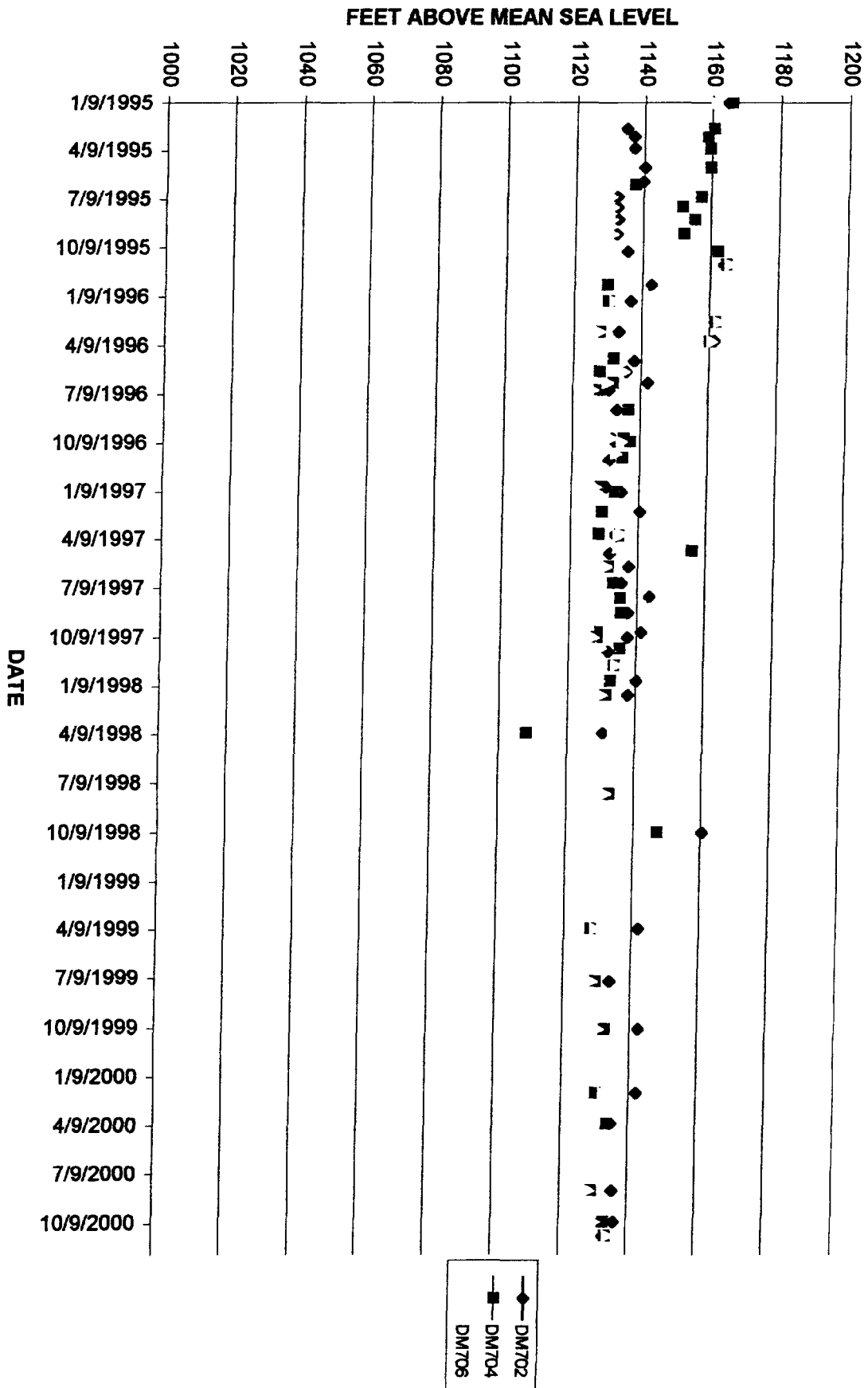
# GROUNDWATER LEVELS VS TIME



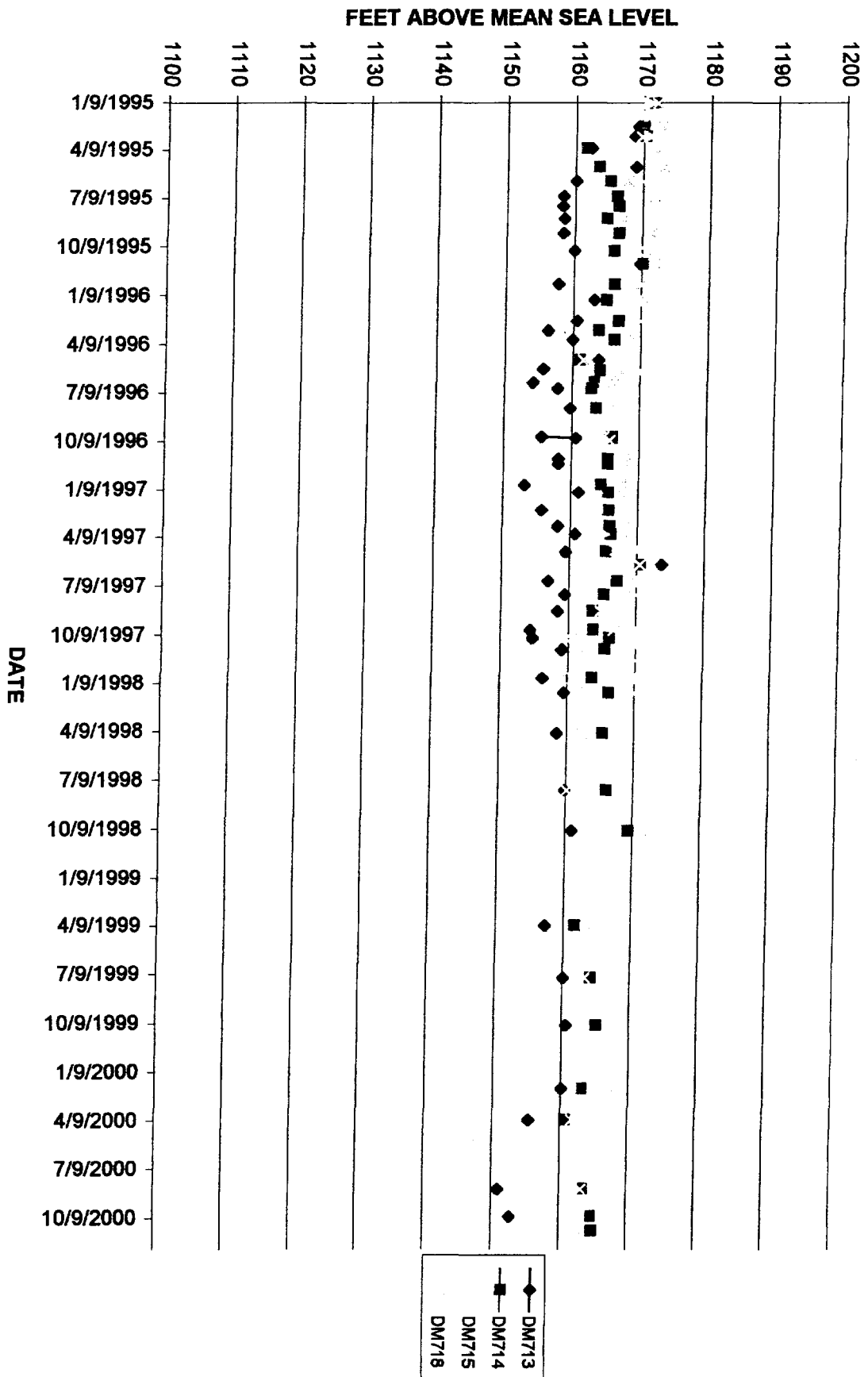
# GROUNDWATER LEVELS VS TIME



# GROUNDWATER LEVELS VS TIME



GROUNDWATER LEVELS VS TIME



# GROUNDWATER LEVELS VS TIME

